### The CHEMIST AND DRUGGIST

WHOLESALER

RETAILER

MARCH 13, 1948

MANUFACTURER



IARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD. DAGENHAM

distributors

At every important stage

pharmaceuticals is carefully checked by highly specialised control chemists. Then on top of all that, not a pound or a pint of a Monsanto product is passed for dispatch or further use until it has undergone the most critical analytical tests. For full details of Monsanto's complete range of pharmaceuticals, write to: Monsanto Chemicals Limited, Victoria Station House, London, S.W.1.

MONSANTO CHEMICALS

ii

ACETYL SALICYLIC ACID BP; ASPIRGRAN;
SALICYLIC ACID BP; SODIUM SALICYLATE BP;
METHYL SALICYLATE BP; PHENACETIN BP;
PHENOLPHTHALEIN BP; SODIUM BENZOATE BP;
BENZOIC ACID BP; VANILLIN, PHENOL BP;
CRESOL BP; LYSOL BP; CRESANTOL-3;
CRESANTOL-15; CRESANTOL-15 R;
PCMC(CHLOROCRESOL BP); PCMX(CHLOROXYLENOL BP)

SERVING INDUSTRY WHICH SERVES MANKIND

### Glaxo vitamins

... describing briefly the wide range of vitamin products manufactured by Glaxo Laboratories Ltd.

VITAMIN A 'PREPALIN' capsules, liquid and ampoules. For 'short term' intensive therapy whenever saturation of the body with vitamin A is required.

VITAMIN  $B_1$  'BERIN' (aneurine hydrochloride): tablets and ampoules. For the treatment of beri-beri; neuritis; anorexia; gastro-intestinal diseases; and to supplement the  $B_1$  intaké during pregnancy and fevers.

VITAMIN B<sub>2</sub> COMPLEX 'PELONIN' and 'PELONIN AMIDE' nicotinic acid and incotinamide; tablets and ampoules. Indicated in pellagra and sub-clinical pellagra; nutritional psychoses, alcoholic poisoning, Vincent's disease and certain vasospastic conditions. The amide frequently has less tendency to cause the flushing and skin reactions associated with nicotinic acid therapy.

VITAMIN C 'CELIN' (ascorbic acid); tablets and ampoules. For treatment of haemorrhagic disorders, delayed healing of wounds and toxic diseases; and as a dietary supplement during pregnancy and lactation.

'Infant CELIN' (ascorbic acid); tablets; vitamin C supplement for infants; given in or with the milk feeds.

VITAMIN D'OSTELIN' (calciferol); tablets and liquid. To supplement calcium therapy and as a nutritional safeguard during pregnancy and periods of rapid growth. High Potency 'Ostelin' (calciferol); tablets, for 'massive 'oral therapy. Indicated in parathyroid tetany, arthritis, rickets; and in lupus vulcaris.

VITAMIN E VITEOLIN (tocopherol) in capsule form. Routine administration in habitual and threatened abortion; accidental haemorrhage.

VITAMINK'KAPILON' vitaminK analogue; tablets, liquid and ampoules. For prophylaxis of neo-natal haemorrhage; obstructive jaundice; and other conditions associated with low prothrombin levels.

VITAMIN P 'PERMIDIN' (hesperidin); tablets. Effective in conditions of increased capillary fragility with spontaneous or induced petechiae; toxic purpura during arsenic and bismuth treatment; erythema and dermatitis resulting from anti-syphilitic therapy.

VITAMINS A and D ADEX OLIN vitamins A & D concentrate; capsules and liquid. To strengthen general resistance, particularly in infancy, pregnancy, lactation; and in restricted diets.

VITAMINS B<sub>1</sub> C, NICOTINIC ACID NICORBIN water-soluble vitamins B<sub>1</sub>, C and nicotinic acid in one tablet. Indicated in mixed deficiency diseases; anorexia, stomatitis, diseases of the mouth; fatigue and debility; and to assist wound healing.



GREENFORD, MIDDLESEX, BYRon 3434

Research Laboratories: Manufacturers of Medical Products and Foods including
Penicillin · Anæsthetics · X-Ray Media · Antiseptics · Liver Extracts · Vitamins · Vaccines · Foods

### **Perfidious Profits**

Much has been said in Parliament and press about distributors? 'Profits'. The inference is that they are perfidious, that this iniquitous thing called 'trade discount' should be stamped out because it increases the consumer price of goods.

Of course it does. So do transport charges, warehousing, packing, insurance and a host of other services essential to get goods from factory to consumer.

If there were no pharmacies and we had to have small depots in every town to supply our goods to the public, we should naturally expect to pay the rent, rates, taxes, wages, etc. necessary to operate them. Nobody would question the soundness of including such costs in the final price charged the consumer. And in such an event, distribution costs would be very much greater (with consumer price correspondingly greater) than they are now by selling to pharmacies whose primary function is to hold small quantities of our goods equal to the public's requirements in the localities they serve.

For that service, we expect to pay. What we pay is expressed, for accounting convenience, as a discount on the goods. It is right that we should make a rateable contribu-

tion to the pharmacist's overheads plus a bit for himself. Like the min and the platelayer he is entitled something for his time and labou We frame our discounts to ensu that that something is left over for his personal remuneration.

And while we are dealing with th secret and sinister thing called prof what of our own 'margin'?

Since 1939, we have never paid ou shareholders in any one year a div dend of more than  $2\frac{1}{2}\%$ . Neither have we placed to reserves in th same period, amounts in the aggre gate exceeding twice the aggregat dividends paid. Any surplus ha been used to absorb innumerable minor increases in wage and materia costs to keep consumer prices a stable as possible and at the lower levels. Most of our products re mained unaltered in price Oct. 1940 to Dec. 1945. showed eleven increases in cost c production in that period but not penny went on to consumer price

With this same unaltered view a the main plank of our policy, we welcome Sir Stafford Cripps' pro nouncement in the Commons to pet all prices. In our opinion, it is a courageous, if overdue, step definitely in the right direction.



Retail  $1/4\frac{1}{2}$  per tin (including Purchase Tax)

Wholesale 9/- per dozen (plus 33½% Purchase Tax)

#### \* Bonus terms profit.

6 doz. tins cost £2.14.0

Purchase Tax 18.0

,, ,, (on bonus) 1.6

Total cost £3.13.6

Selling price  $(6\frac{1}{2} \text{ doz.})$  £5. 7.3

Profit £1.13.9

=nearly 46%

# GET THE 46% PROFIT, THAT'S GOING

Nearly 46% profit when bought on new bonus terms.

13 to the dozen for minimum orders of 6 dozen.

Evans Blue Cross Baby Powder, backed by the nationally-advertised name of Evans, is readily selling and bringing repeat sales as well.

Ample supplies are available.

Ample supplies are available. Order your bonus parcel now.

### EVANS MEDICAL SUPPLIES LTD

Speke, Liverpool 19, and Bartholomew Close, London, E.C.1

Distributing Depots:
BELFAST, BIRMINGHAM, BRISTOL, LEEDS, LEICESTER, MANCHESTER, NEWCASTLE,
SHEFFIELD AND SWANSEA.

The Remarkable Quickness of

Cephos THE ALE OF THE PHYSICIAN'S REMEDY

in clearing a headache is very well known

Cephos is easily tolerated and the treatment can be continued as long as the conditions demand.

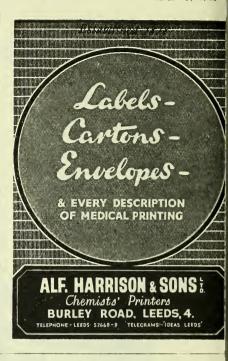
Cephos, a combination of therapeutic agents possessing the varied functions of analgesic, antipyretic, antirheumatic and nerve sedative with a heart and nerve tonic, provides a remedy with a wide field of use.

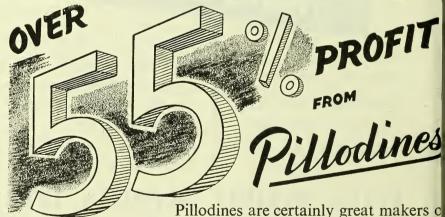
Cephos is extremely useful in the treatment of feverish colds, sinusitis and influenza. It is both safe and effective in dealing with rheumatic pains, whether muscular or articular, in neuritis and allied conditions.

Cephos retail prices, tablets and powders, are: 8 doses 1/6 21 doses 3/7½

Single dose 2½d. (including tax)

Cephos Ltd., Blackburn





profits for pharmacists—and very efficacious cold preventive from the public's point of view.

Sales are backed by 'sell-on-sight' counter-display cartons, 'story-at-a-glance' showcards and ingenious twist-release containers. Write for trade terms now

WATFORD CHEMICAL Co. Ltd., 30 BAKER STREET, LONDON, W.

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# The SALES APPEAL is in the DESIGN

Following widespread acceptance of the new anti-colic design by Nursing and Medical Authorities, extensive advertising support in the National Press and Women's Magazines is rapidly stimulating demand for the "Modern" Teat. Available in attractive counter display

outers of three dozen, through wholesalers only. Fixed retail selling price 6d. B.I.F. 1948
OLYMPIA
and Earls Court
MAY 3-14
SEE OUR EXHIBIT



MODERN' ANTI-COLIC TEAT

THE CANNON RUBBER MANUFACTURERS LTD., LONDON, N.17

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# You need never be out of stock!



Reasonable supplies of Moorlands are available for the Wholesale and Retail Drug Trade. No one need be out of stock of this quick-selling all-the-year-round line. Link up with our all-the year-round advertising by reminder counter displays.

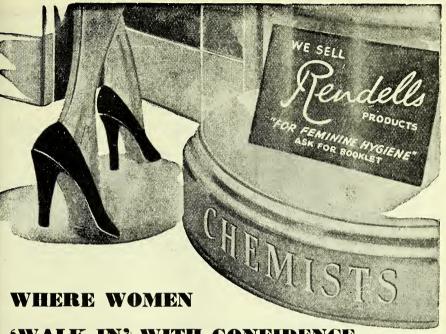
There is a big future for Moorlands.



On the PATA Protective List.

Retail prices: Moorlands 1/8 & 10d. (incl. Tax.) Penetrol Inhalant 2/3 & 3/6. (incl. Tax.) Urillac Tablets; 81d. 1/5, 3/4

W. B. CARTWRIGHT LTD., RAWDON, LEEDS



### 'WALK IN' WITH CONFIDENCE

For over half a century, women everywhere have had justifiable confidence in the name Rendells, and in the pharmacist who stocks Rendells products.

The Chemists displaying Rendells frequently find this an excellent means of introducing new customers.

If you need further supplies of window and counter display material, just send us a postcard.



NOW WRAPPED IN CELLULOSE FILM AGAIN

W. J. RENDELL LTD., 161 ROSEBERY AVENUE, LONDON, E.C. I

1948

Advertising E Special Offer of

**DISPLAY**MATERIAL

### G.T.FULFORD Co. Ltd. (of Canada)

announce their 1948 advertising programme for Dr. Williams Pink Pills and Bablets,

Regular insertions have been arranged in the national Press, women's magazines and in over 400 provincial, daily and weekly papers and in addition, films and slides show at more than 100 cinemas weekly.



#### DR. WILLIAMS PINK PILLS:

Show cards (9 x 7 strutted) an attractive design for your counter or window and

Window Stickers (15 x 4) to match, gummed four corners to fix to the interior of your window.

#### BABLETS:

Show cards and Window Stickers in the attractive Blue and White motif which is now well known. Display Cartons. Display cartons with dummy tray to represent a dozen packets.

The above Display material will be willingly sent post free on request to:

8 ROYSTON PARK ROAD, HATCH END. MIDDX.

### D.D.A. AMIDONE

Chemists who are using our D.D.A. Register can obtain an extra section to paste in at the end of current register

7D. post free.

JAMES TOWNSEND & SONS, LTD.

EXETER

### Important Notice

VOL-VITE changes its name to

### VEN-VIIES

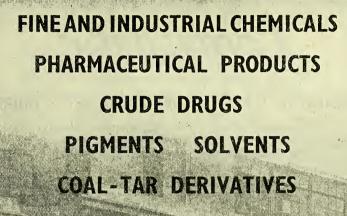
The chocolate coated multi-vitamin product formerly known as VOL-VITE is now re-named VEN-VITES. VEN-VITES—rich in vitamins A  $B_1$ , C and  $D_2$ —bridge the gap between vitamin deficiencies and vitamin fitness.

Units of I doz. tins, in attractive counter display outers. 4/6 per tin retail (no tax). Trade 36/- doz. For dispensing (limited quantity) 48/- per 1,000.

Exchange your stock for the new VEN-VITES tins immediately through your wholesaler or direct from:—

HOWARD-TAYLOR LTD.
BALHAM HIGH ROAD, LONDON, S.W.12

Telephone: Balham 6546





### R. W. GREEFF & CO., LTD.

HEAD OFFICE

12, FINSBURY CIRCUS, LONDON, E.C.2
LONDON WALL 5241 WIRES: GREEFF, AVE, LONDON

and at

THE ROYAL EXCHANGE, MANCHESTER
BLACKFRIARS 9407-8 WIRES: GREEFF, MANCHESTER

# Cardophylin

(THEOPHYLLINE-ETHYLENEDIAMINE)

#### RESPIRATORY STIMULANT VASODILATOR ·

Cardophylin is a drug of outstanding value in the treatment of diseases of the Cardiovascular system, respiratory disturbances and cedema.

Supplied in :-

TABLETS for oral use. each tablet containing 0.1 g. In tubes of 20 and bottles of 100 and

AMPOULES for intravenous injection, each containing 0.24 g. in 10 c.c. In boxes of 5 ampoules.

AMPOULES for intramuscular injection, each containing 0.48 g. in 2 c.c. In boxes of 6 ampoules.

SUPPOSITORIES, each containing 0.36 g. In boxes of 10 Suppositories.

OBTAINABLE FROM YOUR USUAL WHOLESALE-SUPPLIERS

Manufactured by

WHIFFEN & SONS LTD · CARNWATH RD · FULHAM · LONDON · S·W·6

· JOHN KNOX · JOHN KNOX · JOHN KNOX · XOZX

Wherever there are Children you'll sell this line

# John Knox Gripe Mixture

When babies and small children suffer with wind, there's nothing gives such prompt relief as John Knox Gripe Mixture. It's a line that is always in demand.

RETAIL:  $1/4\frac{1}{2}$  and  $2/5\frac{1}{2}$  per bottle including tax.

9/- and 15/6 doz. Tax 331% Quantity terms I gross less 5%

NOX (STOKE-ON-TRENT)

Jaynox Works, King Street, Fenton, Stoke-on-Trent

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HOC.XONX

z HOC.

XONX

KNOX · JOHN

z

PATA

John Knox (Midland) Ltd., 36/38 Dean Street, Birmingham 5

NOX - LOHN KNOX 0 I z z 0 0

### EUCRYL LTD.

are pleased to announce that

Fred Storey Ltd., 73a Ann St. Belfast

will act as their Agents in N. Ireland from 15 March, 1948, for the sale of Eucryl Dentifrices and Luce's Soapless Shampoo.

уони киох · тони киох · тони киох ·

# BELLERGAL

Bellergal provides for the effective treatment of disturbances of an important regulatory mechanism—the autonomic nervous system.

Bellergal is an association of:-

FEMERGIN - - Sympathetic inhibitor

BELLAFOLINE - - Parasympathetic inhibitor

PHENOBARBITONE - Brain stem sedative

### BELLERGAL STABILIZES **AUTONOMIC FUNCTIONS**

SANDOZ PRODUCTS LIMITED 134 Wigmore Street, London, W.I

#### P.A.T.A.

# LOSALL'S HALIBUT LIVER OIL CAPSULES

RETAIL PRICE 2/- .. 15/6 doz.

-do-

4/6

34/6 doz.

TAX FREE

WE CAN SUPPLY BY RETURN POST

LOFTHOUSE & SALTMER LTD.



MANUFACTURING CHEMISTS
HULL

### SELLING UNLIMITED:

ORE and more Chemists are getting cal's for ANTIPHLOGISTINE for a long list of common everyday conditions

### P.A.T.A.

Respiratory: Chest Colds, Bronchial Irritations, Sore Throat due to colds.

Home Injuries: Sprains, Strains, Muscular Aches and Pains.



Four sizes available to meet all demands:  $10\frac{1}{2}$  ozs., 1 lb., 2 lbs., 5 lbs.

Antiphlogistine

THE DENVER CHEMICAL MFG. CO.
LONDON, N.W.9



DISCERNING MEN

THE NEW PURE SOAP
SHAVING CREAM

Harmonise your sales with Goodwill and Good Profits

 $\bigstar$  FOR QUICK DELIVERY CONTACT YOUR WHOLESALER TODAY, or write direct to :—

ESMOREA Chemical Products Ltd., 106 Regent St., London, W.I

Also obtainable from our Provincial Branches:

13 HIGH BRIDGE, NEWCASTLE-ON-TYNE Telephone: Newcastle 26739 M. V. COAD AGENCIES 151, VICTORIA STREET BRISTOL, I For coughs and colds.



MANUFACTURING CHEMISTS

## Packed Pharmaceutical Series . . .

### **LUNG TONIC**

Pleasant to take and effective in its action.

Suitable for adults and children.

Price 7/6 per doz.

1/6 per doz.
plus 33½% Purchase
Tax

Formula:—Horehound 0.36, Coltsfoot 0.36, Linseed 0.36, Liquorice 0-36, Acetic Acid 1.00, Liq. Ext. of Squill 0.31, Chloroform 0.60, Tincture of Capsicum 0.10, Oil of Aniseed 0.11, Oil of Peppermint 0.005, Vehicul to 100.

In 3 oz. Screw capped bottles labelled in the modern style of our PACKED PHARMACEUTICAL SERIES. Your name and address printed on free of charge if desired.

PACKED GOODS OF REPUTE

RICHARD DANIEL & SON LTD., DERBY

MANUFACTURING CHEMISTS

Tel: 4266 (3 lines) Grams: Dania, Derby

Are you a Realist?

There may be good reasons behind ultra-modern sculpture but we are more concerned with a realistic approach to the practical art of good printing. And we've learnt a lot about it in our 70 years of printing service to all branches of industry and especially to the medical and pharmaceutical professions. Why not benefit by our wide knowledge of your needs? When you

plan your next brochures, showcards, cartons, labels, etc., let us advise you. We'll be happy to assist in every way.

THOMAS WAIDE & SONS LTD KIRKSTALL HILL, LEEDS, 5

Print Specialists for over 70 years

### PATTINSON'S MAGNESIA

GUARANTEED B.P. QUALITY

Mag. Carb. Levis. Mag. Carb. Pond.
Mag. Oxide Levis. Mag. Oxide Pond.
Mag. Trisilicate.
Mag. Hydrate. Mist. Mag. Hydrox.

Supplied through all wholesalers

### by the sole manufacturers: The WASHINGTON CHEMICAL

CO. LTD.

A MEMBER OF THE TURNER & NEWALL ORGANISATION.

#### WASHINGTON CO. DURHAM

London Office:

Everite House, 591, Southwark St., S.E.I

Manchester Office:

15, Pollard St. East, Manchester, 10

### 'SEPTISOL'

for Diaper Rash

NURSER OINTMEN

'SEPTISOL'

for Better Baby Bathing

BABY

SOAP

\_

Give Profit and Prestige, and ensure Repeat Demai Constant Advertising makes every Mother Famill with these Products

SEPTISOL LIMITE

BLYTON ASTLEY & CO., LTD.

Eagle Laboratories

LOWER BROUGHTON, MANCHESTER

LOWER BROUGHTON, MANCHESTER thank their customers for their patience and forbearance during these difficult times, and assure them that every effort is being made to supply quickly lines which they have previously purchased.

DRIED YEAST

MIDGLEY & PARKINSON, LTD.
WARREN WORKS, PUDSEY, LEEDS

The

# MILLAMALT

Sole Manufacturers

With Vitamins

(A. 6,500 I.U., D. 400 I.U.)

JEFFREYS, MILLER & CO. Ltd. Leyland Mills, WIGAN, London Dept.: 19 Brookside Rd. N

### PARAGON RAZOR BLADES



No. 4. ACORN



No. 2. SINGLE EDGE



No. 3. STROPPING

SOLE MANUFACTURERS—

THE PARAGON RAZOR CO.
NURSERY WORKS, ELDON STREET, SHEFFIELD,



INTERNATIONAL CHEMICAL CO. LTD.

Chenies Street, London, W.C.I

# THE CHAS H. PHILLIPS CHEMICAL CO., LTD. REVISED PRICES

Effective from November 13th, 1947.

	Retail Price Each	Wholesale Price
Medicinal Preparations (Tax 33½%)	Including Tax	Tax Extra
* Milk of Magnesia '	1/7	11/3
99 99 99	3/2	22/6
* Milk of Magnesia 'Tablets	. 1/3	9/-
99 99 99 99	2/6	18/-
* Mil-Par 'Antacid Lubricant	2/10	20/5
» » »	4/9	34/3
* California Syrup of Figs '	1/6	10/8
29 29 29	2/10	19/9
Toilet Articles (Tax 50%)		
* Phillips' Dental Magnesia	1/6	9/7
99 99 99	2/6	16/6
Cosmetics, etc. (Tax 125%)		d . n
Phillips' Magnesia Texture Cream	1/-	4/5
99 99 99 99	3/-	14/-
Phillips' Magnesia Cleansing Cream	1/-	4/5
′ າາ າາ າາ າາ	3/-	14/-
* Danderine '	2/6	12/-
99	5/-	24/-

The Quantity Terms granted in consideration of fourteen days' window or counter display continue on the existing basis.

\*Registered Trade Marks.

P.A.T.A.

## Silver Salts



Silver Proteinate B.P.

Silver Vitellinate B.P.C.

Silver Vitellinate 30%

Silver Metal Colloidal 70%



# WARD. BLENKINSOP

6 HENRIETTA PLACE, LONDON, W.1
Telephone: LANgham 3185 Telegrams: Duochem, Wesdo, London

# StaffAllenS

# PYRETHRUM EXTRACTS

The insecticides with

the QUICK KNOCK-DOWN

Our biologically controlled Pyrethrum Extracts are among the most effective bases for industrial and domestic insecticides.

They give IMMEDIATE KNOCK-DOWN and can be used very successfully in conjunction with D.D.T. and other preparations. We gladly advise on suitable formulations for all purposes.

Colourless

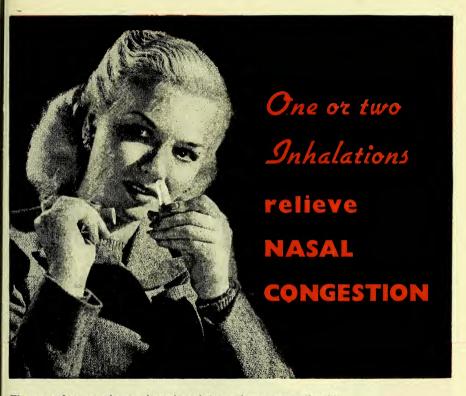
PYRETHRUM EXTRACTS
PYRETHRUM POWDER



STAFFORD ALLEN & SONS LTD

Wharf Road, London, N.1.

Phone: (LErkenwell 1000 (7 lines)



The next few months are bound to bring a heavy crop of colds. Customers will be grateful when you recommend the 'Methedrine' Inhaler. Its rapid action soon relieves "stuffiness," allowing the user to breathe with normal freedom. Each inhaler is attractively cartoned. Orders for 24 are sent you in a neat display outer. Retail price of 'Methedrine' Inhaler: 2/- plus 6d. purchase tax.

The new

# 'Methedrine'... Inhaler



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

Contact Contact Cox of Brighton Ve PILLS & TABLETS

AN ORGANISATION THAT HAS EXTENSIVE PRODUCTION FACILITIES AND OVER A CENTURY OF EXPERIENCE . . .

RTHUR H. COX & Co. LTD BRIGHTON . SUSSEX



### A new brilliantine specially for women...

a brilliantine in four lovely shades . . . a brilliantine that brings captivating charm to every woman's hair . . . and the fragrance is so typically Pinaud.

### PINAUD TRADE

PINAUD Brilliantine for Women (Cat; No. 13302L) is in the four following shades: Blue, Green, Rose, and Golden, and made to the original Paris formula. In charmingly designed bottles. Reproduced above is one of the advertisements in the series appearing regularly in 'Punch' and issued by PINAUD Ltd., Atkins Road, London, S.W.12. (Members of P.A.T.A. and H.T.A).

# Its by Dears It's new erent (Slowia Liquid Shampoo

It's backed by one of the most powerful advertising campaigns in recent years . . PRESS...CINEMAS... HOARDINGS . .

- Leaves every single hair perfectly clean.
- 2 Gives hair extra
- Reveals exciting new natural tints in 3 the hair.
- 4 Does not "parch" hair or scalp.
- Leaves the hair healthily supple and so casy to do, right away.

### TWO POPULAR





### **AUTOMATIC WATER STILLS**



- PYREX GLASS COVER
- PYREX GLASS BAFFLE
- HEAVILY TINNED CONDENSER TUBE
- SUPPLIED WITH WALL BRACKET



- DISTILLED WATER AT LOW COST
  CONTINUOUS IN OPERATION
- EASILY CLEANED
  CONSUMPTION PER HOUR
  - 'OOA GAS: 36 cubic feet
    'OA' GAS: 14 cubic feet

10 additional models available with outputs from 2 pints to 50 gallons per hour. Models can be supplied for Gas, Electric, Paraffin and Steam Heating. Full details on request.

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The world's finest Puffs, made by the world's leading Puff manufacturers. sizes — 60 designs—in Swansdown, Lambskin. Lamb's-wool, Beaver and Velour. Hygienically made, most attractively packed nationally advertised.

Please apply to your local Wholesaler for details.

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sound principles.

Well packed, ample supplies, attractive show material.

Backed by local advertising to be followed by national advertising.

Distributed by :-

### VICTORIA HOUSE SOUTHAMPTON ROW LONDON

Manufactured by C. Draper Ltd., Twyford, Berks.



Flat square bottles Plus Purchase Tax 125% Carriage Paid, Packing Free.

Please order early to ensure prompt delivery

creators of high-grade perfumery SUTHERLAND ROAD

LONDON

E.17



# POTTER'S ASTHMA REMEDY



Revised "Budget" Prices
Price 2/5 per Tin (inc. tax)
Wholesale 18/- per Doz., plus 6/- per Doz. Tax
Packed in half dozens

Well advertised and world famous A sound selling line for every Chemist

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# A woman wants two things from a beauty cream .



She expects it to perform make-up magic—to hold powder smoothly, lastingly, and to make her prettier right this minute. But she also expects it to care for her skin—to improve its texture, make it smoother, help it to resist wrinkling. SKIN DEEP does both of these things.

Made from Atkinsons newest formula for the day and night care of the skin, SKIN DEEP

holds make-up perfectly by day and acts as a rich skin food by night. As the years go by the natural substances which keep the skin pliable and able to resist wrinkling dry up. SKIN DEEP, blended from oils closely resembling the skin's natural oils, preserves the complexion against wind, weather and loss of elasticity caused by the march of time.

ATKINSONS

Skin Deep

BEAUTY CREAM

FOR DAY AND NIGHT USE

#### All Skin Deep

advertisements appearing in the big-circulation magazines and journals feature the phrase "does the skin good." And it's true.





The big new bonus offered on 'Tabloid' 'Empirin' Compound makes it an extremely profitable line. The bonus brings you

\* Fourteen to the dozen on six dozen assorted lots, or Thirteen to the dozen on three dozen assorted lots.

This can mean as much as 1/11 profit on a bottle of 100, or over 7d. profit on a bottle of 25. The 'Empirin' Compound bonus spells especially good business when you bear in mind the growing demand for this high-grade product. Retail prices: bottle of 100, 4/6 plus  $1/1\frac{1}{2}$  tax; bottle of 25, 1/5 plus  $4\frac{1}{2}$ d. tax.

'Tabloid' Empirin TADE Compound



BURROUGHS WELLCOME & CO. (The Wellcome LONDON



### THOMAS KERFOOT & Co. Ltd.

announce with regret the retirement of

MR. E. J. WILKS

after 54 years' distinguished service

They are now considering the appointment of a Representative to succeed Mr. Wilks in Hampshire, Sussex, Kent and part of Surrey, and would be pleased to hear from gentlemen with experience of outside representation. Preference will be given to those with pharmaceutical qualifications.

THOMAS KERFOOT & CO.LTD. Vale of Bardsley ... Lancashire 

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DR. FAIVRE BRAND CACHETS OF OXYQUINOTHEINE

NOW IN SUPPLY This world-famous product is back again exactly as pre-war in quality and pack. Having the advantages of being non-toxic and non-habit-forming a big demand is anticipated. Free from the disadvantages of the barbiturates and more effective than aspirin Cachet Faivre have a definite neuro-conic action and cannot cause depression. Write today for your allocation.

SUPPLIED IN ONE SIZE ONLY—BOXES OF 12

RETAIL Including P.T.

WHOLESALE

30/6 per dozen plus 331% P.T.

74-77 WHITE LION ST LONDON NIL ST. ESTD. OVER 100 YEARS

9. TEMPLE BAR, DUBLIN



# CHEMIST AND DRUGGIST

for RETAILER — WHOLESALER — MANUFACTURER

MARCH 13, 1948

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London." ingle copies 1/- each. Annual subscription, which includes The Chemist and Druggist Diary and Year Book, 30/-

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### NEWS OF THE WEEK

Council Election.—Nominations for the orthcoming election to the Council of the harmaceutical Society of Great Britain, to ll vacancies which fall due this year, hould be sent to the secretary of the Society of later than March 18.

Grants for Research Workers.—The Department of Scientific and Industrial kesearch has issued as a pamphlet a series f notes on grants awarded by the Department to research workers and students. Lopies are available (price threepence) rom H. M. Stationery Office.

A Scheme for Students. — Special rrangements have been made with the british Pharmaceutical Students' Association under which copies of the C. & D. will e made available to members of the Association under favourable terms. Applications for copies should be made by memers of the Association to Mr. J. E. Shinner, 'h.C., at the Association headquarters, 3 Indsleigh Street, London, W.C.1.

Memorandum on Vaccination.—The Inistry of Health has issued a memorandum on vaccination against smallpox (H.M. Stationery Office, price twopence) designed to assist medical practitioners when, on July 5, the vaccination of infants ceases to be compulsory. The method which the memorandum suggests should be adopted for voluntary vaccination is the "multiple pressure" technique, for which the advantages claimed include freedom from discomfort for the patient.

Blundell Memorial Fund.—The Southwest London Chemists' Association, the Guild of Public Pharmacists and the National Association of Women Pharmacists have opened a fund to provide a memorial, in the form of a gift to the Pharmaceutical Society's Convalescent Home, Birdsgrove House, to the late Miss E. B. Blundell, M.P.S. (see G. & D., January 17, p. 76). Contributions should be sent to Miss D. M. Jones, Pharmaceutical Department, Bolingbroke Hospital, Wandsworth Common, London, S.W.II.

T.S.A. Penicillin Licences.—A further list of holders of licences for dispensing penicillin injections under the Therapeutic

Substances Act, 1925, is given below (a first list was published on February 28, p. 285): Bath, Mills & Mills (Chemists), Ltd., 8 George Street; Chelmsford, Essex, L. Parkinson, 42 Duke Street; Dewsbury, Dewsbury Pioneers' Industrial Society, Ltd., Northgate; Manchester, V. Cromack, Ltd., 413 Oxford Road, 13; Tunbridge Wells, Miller & Co. (Tunbridge Wells), Ltd., 42 Mount Ephraim.

Public Pharmacists and N.H.S.—At a meeting of the Council of the Guild of Public Pharmacists held on February 21,



Mr. David Currie, M.P.S.

the following were elected to serve on the Pharmaceutical Functional (Whitley) Council for pharmacy under the National Health Service: Mr. David Currie (who is to act as chairman), Miss E. Dobie, and Messrs. D. H. S. Cox, R. H. Henriksen, J. Moore and A. G. Shaw. Mr. R. H. Henriksen was nominated to the Central

Health Service Council in the place vacated by Dr. H. Davis. It was reported that two new branches of the Guild had been formed, one to cover South Wiltshire, Hampshire, Dorset and the Isle of Wight, the other for Edinburgh and South-east Scotland. Proposals for the rearrangement of Guild districts to conform more closely with hospital regional areas, it was reported, had been broadly accepted by Guild branches.

Poison-in-Starch Warning.—The Ministry of Food has issued to the public a warning that considerable quantities of a packeted product labelled "Stafford Starch Concentrated," made by Best-Pax, Ltd., now on sale, contain a poison introduced inadvertently during manufacture.

New Source of Atomic Energy.— American atomic scientists have created an entirely new family of fourteen radioactive isotopes, according to Professor G. T. Seaburg (University of California). One of them, uranium 233, was made by neutron bombardment of thorium, an element three times as abundant in the earth's crust as uranium 235, the only natural substance which can at present be utilised for release of nuclear energy. Whitley Council Protests.—At a conference of North of England members of the Association of Pharmaceutical Employees held on March 7, a resolution protesting at the exclusion of retail pharmaceutical employees from representation on the Pharmaceutical Functional [Whitley] Council was carried unanimously. The resolution stated that such employees would be responsible for National Health Service dispensing in about 50 per cent. of the country's retail pharmacies.

Disinfectant Manufacturers. — At the annual meeting of the British Disinfectant Manufacturers' Association on March 3, the following were elected for the ensuing year:—Chairman, Mr. A. J. Black (Lehn & Fink Products, Ltd.); Vice-chairman, Mr. R. G. Berchem (Jeyes' Sanitary Compounds Co., Ltd.); Treasurer, Mr. V. G. Gibbs (William Pearson, Ltd.); Executive Committee, Messrs. A. E. Berry, T. C. Beteridge, P. J. Bovill, J. H. Chapman, W. Elliott, W. Mitchell, W. Morgan-Thompson and J. E. Wells.

#### LOCAL NEWS

Cleethorpes Dance.—The annual dance of the Grimsby Pharmacists' Association was held at Cleethorpes on February 26.

Port Sunlight Jubilee. — Trees were planted at Port Sunlight on March 3 by Lord Leverhulme and Mr. G. A. S. Nairm (chairman, Port Sunlight Co.) to mark the silver jubilee of the inauguration of the development.

Southampton Hormones Lecture.—At a meeting of the Southampton Branch of the Pharmaceutical Society on March 1, Mr. G. A. Stephens (The British Drug Houses, Ltd.) spoke on "Sex Hormones and their Uses." The meeting was well attended and a lively discussion followed the address.

Exeter Lecture.—Members present at a meeting of the Exeter Branch of the Pharmaceutical Society on February 26, at which Mr. Charles Beaven, Ph.C., A.R.I.C. (Parke, Davis & Co.), gave his lecture "The Riddle of Allergy," raised problems of allergy which they had met within their pharmacies. Mr. P. M. Smith (chairman) presided, and a vote of thanks was proposed by Mr. J. H. Davey, Sidford.

Smethwick Staff Dinner.—The first annual dinner of the staff social club of John Knox (Midland), Ltd., Birmingham, was held at Smethwick on February 27. There

were some eighty guests including Mr. C. H. Coxon, M.P.S. (managing director) with Mrs. Coxon, Messrs, F. W. Tompkinson, M.P.S., and S. J. Davey (directors) and Mr. A. E. Harvey (general manager) with Mrs. Harvey.

Eastbourne "Business" Talk. — Mr. E. A. Brocklehurst (a member of the Council of the Pharmaceutical Society) addressed Eastbourne Branch recently on "The Business of Pharmacy." In a review of current pharmaceutical topics, Mr. Brocklehurst said the Joint Committee on a National Pharmaceutical Service now existed only in a consultative capacity, preparing material for negotiations with the Ministry of Health: Statistics showed that most chemists were undertaking National Health Insurance dispensing at a loss, and even for private dispensing the remuneration received was often not sufficient.

Mr. Wilson in Portsmouth.—When Mr. F. C. Wilson (a member of the Council of the Pharmaceutical Society) spoke on current pharmaceutical topics at a meeting of the Portsmouth Branch of the Society recently, his address succeeded in the purpose implied in its title, "To Start You Talking," and a vigorous discussion fol-lowed. In reply to Mr. R. G. Tremlett, Mr. Wilson estimated that, under the new educational scheme, the period from the time of registration as a student or apprentice to the time when an entrant to pharmacy could support himself would be little -possibly a year—longer than at present. The following were appointed to represent the branch at the Branch Representatives' meeting: -Messrs. F. H. Oliver. A. G. Bradburn and H. N. Griffiths.

Law of Negligence.-Mr. D. H. O. Gemmell, B.L., Ph.C., read a paper on "Medicines and the Law of Negligence" before a meeting of the North British Branch of the Pharmaceutical Society, recently. He referred to numerous per-tinent law cases and suggested that a pharmacist's duty was to the public and not solely to customers, with a special or enhanced duty towards children. standard demanded from a pharmacist by law was the average amount of skill and care of his profession. The duty of care owed by him might be denied or limited where there was interference by third parties, or when he sold goods in the same condition as he received them, provided that there was no possibility of intermediate inspection. The duty was greater if a dangerous or poisonous substance was sold.

Croydon Nutrition Talk .- Speaking at a meeting of the Croydon Branch of the Pharmaceutical Society recently, Mr. F. Wokes (Ovaltine Research Laboratories) described a recent visit to Germany to discuss trials of baby foods, produced by his company, which were being conducted by a Medical Research Council team. thought the food situation in Germany and other parts of Europe far more serious than it was in Britain. Mr. Wokes then outlined methods used for determining vitamin requirements in man and showed how the requirements varied for different individuals and in different conditions. discussed the variation in the vitamin content of various natural foods, and the losses which occurred during cooking and pre-Numerous dietary studies had been made, he said, to discover the effect of supplementing the diet with additional vitamins and minerals, but results were often inconclusive. Positive results had been obtained from providing food supplements to children and expectant mothers.

Dartford N.H.S. Discussion .- Addressing the Dartford Branch of the Pharmaceutical Society on February 25, Mr. W. J. Tristram (a member of the Society's Council and of the National Pharmaceutical Union Executive) described the progress of negotiations for chemists' terms under the National Health Service. All pharmaceutical work, he said, would be done by or under the supervision of pharmacists, who would have an adequate voice at all levels. The retail pharmacy would be an integral part of the service. Describing the recently set up Whitley Council (see C. & D., February 28, p. 262) he said representations from employees would have to be made through the National Joint Industrial Council for Retail Pharmacy. In discussion, several members expressed disappointment at the absence of more concrete facts, fearing that on the appointed day chemists might be presented with a fait accompli. Other problems discussed were the arrangements for late duties, the prescribing of large quantities of drugs on single prescriptions and the possibility of unfair competition from health centres. Present methods of pricing National Health Insurance prescriptions, and the consequent delay in payments, were strongly criticised; such conditions, it was agreed, could not be tolerated under the new service. Mr. Tristram advised members of the N.P.U. to send appropriate complaints and resolutions to the headquarters of the Union.

### **OVERSEAS NEWS**

U.S. Streptomycin Production. — U.S. streptomycin output reached the record figure of 1,660,000 gm. in December 1947.

American Chemical Society. — The 113th national meeting of the American Chemical Society is to be held in Chicago, Illinois, U.S.A., April 12-23.

Rhodesia to Produce Chemicals.—Basic chemicals for insecticides, and caustic soda, are to be manufactured in Rhodesia by a new company, Electro Chemicals, Ltd., which expects shortly to be in production on a site near Salisbury.

Distribution of Isotopes. — Australia (with twenty-one consignments) heads the list of eight countries which have been importing radioactive isotopes from the United States. The materials include P<sup>52</sup>, I<sup>131</sup>, F<sup>50</sup>, C<sup>14</sup>, Co<sup>50</sup> and S<sup>35</sup>.

Brazil Trade Controls. — Pharmaceutical products and other goods of prime necessity are exempt from import control under a new Brazilian decree. Exports of Brazilian products are to be permitted on surpluses over and above specified quantities reserved for home consumption.

Higher Egyptian Tariff Urged. — The Chamber of Pharmaceutical Industry in Cairo has asked the Egyptian Ministry of Commerce and Industry to increase customs duties on pharmaceutical products imported into Egypt, in order to protect the local industry.

Greek Trade with French Zone.—An agreement has been concluded between the French occupation zone of Germany and Greece providing for the exchange of Greek products, including sponges and bauxite, against dyes and chemicals and precision instruments from the French zone.

Nitrate Factory for Norway.—The Norwegian electro-chemical concern, Norsk Hydro, is carrying out extensions at its Heroya factories at a cost of £6,500,000. When the extensions are completed the Heroya plant will be Europe's largest nitrate factory, with an output of 750,000 tons a year against 400,000 tons at present.

Czech Pharmaceutical Industry. — According to the Czech Communist paper "Rude Pravo," certain undertakings—particularly those producing chemical, pharmaceutical and medical articles—will be nationalised irrespective of size. Wholesale and foreign trade will be run by the State exclusively.

Norwegian Codfish Catch.—The catch of codfish in the Lofoten fishery in the current season is proving disappointing and cod-liver oil output will probably be small By February 14 production of cod-liver oi had totalled 10.36 hectolitres, against 24.14 on February 14, 1947 (1 hectolitre=202.82 lb.), but these totals include oil from other Norwegian fisheries, where during the pass months the catch has been good.

New Pakistan Industries. — Unilever (Commonwealth Holdings), Ltd., are to construct two factories in Bahawalpur, Pakistan, for the manufacture of oil and hydrogenated oil products and soap. The factories are scheduled to start production in 1949, and the initial production capacity of the hydrogenated vegetable oil plant will be about 3,000 tons annually, to be increased according to demand to 10,000 tons; and the soap factory will produce about 5,000 tons of soap annually.

Medical Visits to Africa.—The Secretary of State for the Colonies has appointed a panel of eighteen medical visitors (nine each for East and West Africa) under a scheme to be financed by the Nuffield Foundation for an experimental period of six years. Under the scheme each visitor will pay two visits to Africa to make contact with medical staffs in isolated areas and establish links between Colonial-trained men and teachers of medicine in this country.

### IRISH NEWS

Ulster Tax Protest.—The Ulster Chemists' Association has sent a letter to the Chancellor of the Exchequer protesting against the imposition of purchase tax on drugs and medicines and on nursing and first-aid requisites. Expenditure on essential medicines, says the letter, could not be considered a luxury; the effect of the tax was often to cause added expense at a time when it could least be afforded.

Eire Health Council.—Mr. Philip A. Brady (president, Pharmaceutical Society of Ireland), and Mr. T. C. Scott (vice-president) have been appointed pharmaceutical representatives on the newly created Eire National Health Council. The Council, which has twenty-six members, including also representatives of the medical, nursing, dental and veterinary professions and of the local authorities, is to advise the new Minister for Health (Dr. Noel Browne) on matters concerning the health of the people.

### **TOPICAL REFLECTIONS**

On with the Motley

The operation of the Pharmaceutical Functional Council, described by you on p. 10 as a motley body, is obviously destined o be a difficult adventure. For so ill-balinced a collection of members motley is, no loubt "the only wear." If a registered teleraphic address for the Council is desired, suggest "Gallimaufry, London." The nore one considers the figures given in he editorial article referred to, the more lifficult it becomes to discover any sound policy behind them. Even the balance between the representatives of English and cottish contractors is disproportionate to he respective populations of the two ountries. A news paragraph on p. 294 nd the letter of Mr. G. H. Armitage on 219 deal with another aspect of the subect, the representation of employees of anel contractors. If the Ministry of fealth decides that it will deal direct only vith (1) representatives of contractors and 2) representatives of pharmacists in charge f hospital dispensaries. I fail to see that here will be any place in the scheme for cpresentatives of the Association of cientific Workers or those of the Conderation of Health Service Employees. nd, as you have pointed out, the seats llotted to the Guild of Public Pharmacists re too numerous. The traditional passion or tidiness in the Civil Service has for nce failed to work, with the result that most lopsided scheme is thrust before nose concerned in arranging for dispen-Here is another case for enlightening embers of Parliament on a matter that ney may have regarded as a minor item f departmental administration.

#### xamination Reports Worth Study

It is to be hoped that the reports prented recently to the Council of the
harmaceutical Society of Northern Irend by examiners (pp. 314-15) will be
uly studied, not only by those immediately
ncerned, but also by a wider circle.
While giving credit where credit is due,
he experts in charge of the various subcts have faithfully disclosed several
eaknesses; the word "but" occurs with
rather disconcerting regularity. No canidate can well doubt (to take two exnples) that the chemistry of pharmapœial substances and the posology of
dinary medicaments should be thoroughly
astered. Yet the average knowledge in
oth these subjects receives adverse com-

ment. Again, to regard analytical procedures as "routines which have to be followed but need not be understood" seems to indicate an intention to forget the subject as soon as convenient when the examination is over. We also read that among common faults were the giving of information not asked for in the question and writing at excessive length on one question or part of one. It is as certain as most things in this world can be that no examiner is likely to be flattered by encountering answers of these types. On the contrary, the encounter may involve an effort to overcome a subconscious prejudice against the volubility of an undiscerning candidate.

#### Adulteration of Food

References to the past in the Hull city analyst's lecture on "Food Frauds" (p. 205) included, I infer, some amusing anecdotes of quaint mediæval punishments for convicted offenders. The pillory must have had, more or less frequently, customers sent there by magisterial decree on charges of adulteration. For several years before the Sale of Food and Drugs Act of 1875 was passed, public opinion had been gradually educated to the need for compulsory power to deal with deliberate offenders in this respect. I may remind your readers of an almost forgotten pioneer in the field of public health. In 1793 Frederick Accum arrived from Germany as an assistant to William Thomas Brande, the well-known London apothecary and chemist. A few years later Accum established a business in Soho in partnership with a Mr. Alexander Garden, and took pupils in chemistry and pharmacy. His reputation extending, he obtained engagements at the Royal Institution and the Surrey Institution. (Brande, it may be remembered, did excellent work in the "Royal" with Davy and Faraday.) In 1820 Accum issued "A Treatise on Adulterations of Food, and Culinary Poisons . . . and Methods of Detecting Them." Within a month a thousand copies were sold. The second edition included new matter on the adulteration of drugs and chemicals. Some of the disclosures aroused hostility among interested persons: a charge of theft in which the author was involved about this time may have had some connection with his frankness. Eventually he returned to Germany, where he appears to have been successful.

### **COMPANY NEWS**

E. A. Coles, Ltd. (P.C.).—Capital £5,500. To acquire the business of a chemists' sundriesman and wholesaler carried on at 61 London Road, Manchester. Edward A. Coles, Geoffrey Λ. Buckley and Charles G. S. Livingston, directors.

ORGANIC CHEMICALS, LTD. (P.C.).—Capital £100. To carry on the business of manufacturing and dispensing chemists and druggists, etc. Leonard E. Ward and Sidney Noble, directors. R.O.: 123 Pall Mann, London, S.W.1.

Dearing & Leonard, Ltd. (P.C.).—Capital £3,000. To carry on the business of manufacturers of and dealers in chemicals, drugs, medicines, etc. Eric C. Dearing and Francis Leonard, Watford Road, Radlett, directors.

ATY GOLD, LTD. (P.C.).—Capital £2,500. To acquire the business carried on at 166 College Road, Bradford as "John H. Bannatyne," together with the right to manufacture Aty Gold and Aty Silk perfumes, etc. Henry Shepherdson, director.

ACOVARI (GLASS PRODUCTS), LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of laboratory equipment, scientific glassware, etc. Stanley G. Green, Maurice F. Green and Albert Service, 67 Bushey Road, Croydon, directors.

EDGARS (CHEMISTS), LTD. (P.C.). — Capital £1,000. To carry on the business of manufacturers, etc., of pharmaceutical, photographic and other products. Gordon C. Edgar and Jonathan C. Edgar, directors. R.O.: Junction Road, Burgess Hill.

ELCO PLASTICS, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in all chemical substances; plastic substances, etc. Thomas W. Ellis, director. R.O.: 5 Raymond Buildings, Gray's Inn, London, W.C.1.

ALDAR PRODUCTS, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and merchants in chemical preparations, etc. First directors are to be appointed. R.O.: 100 Woodhouse Road, Leytonstone, London, E.11.

Phed Products, Ltd. (P.C.).—Capital £2,000. To carry on the business of manufacturers of cosmetics and toilet preparations, etc. Eva N. Jones, Stanley I. Levy and Harold N. Jones, directors. R.G.: 14 Station Approach, London, S.W.11.

ROPER & WOOD, LTD. (P.C.).—Capital £4,000. To acquire the business of a chemist and druggist carried on by Reginald O. Brough at 7 High Street, Kington, Herefords. Gwendoline Roper, M.P.S., Frederick Roper, Emily and Ann Wood, directors.

Cranyield Industries, Ltd. (P.C.).—Capital \$100. To carry on the business of manufacturers, etc., of pharmaceutical preparations and medicines. John G. Gommes and Simone Gommes, directors. R.O.: 159 Finchley Road, London, N.W.3.

RAYMOND (ART DE BEAUTE), LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in cosmetics, medicines, etc. Adelind Bessone and Marcel Bessone, directors. R.O.: 52 High Holborn, London, W.C.1.

B.V.P., Ltd. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in invalid foods and beverages, chemists, druggists, etc. First directors are to be appointed. Solicitors:

Kenneth Brown, Baker, Baker, Essex House, Essex Street, London, W.C.2.

SALMON & ATKINSON, L.TD. (P.C.).—Capital £1,500. To acquire the business of chemists now carried on at Varo Terrace, Stockton-on-Tees. Leonard C. Atkinson, M.P.S., Madge Black and Joan Mothersdale, directors.

INTERNATIONAL BOTTLE Co., LTD.—Mr. Gilbert Broadbent has been appointed a director.

BRITISH OPTICAL & PRECISION ENGINEERS, LTD.—Shareholders of A. Kershaw & Sons, Ltd., have approved an exchange of all the company's assets, except £47,018 in cash, for 211,672 5 per cent. preference and 392,473 £1 ordinary British Optical shares. The new company is also acquiring control of several other companies manufacturing photographic and scientific apparatus, including Taylor, Taylor & Hobson, Ltd.

#### BUSINESS CHANGES

Boots, Ltd., have acquired the pharmacy at 384 Handsworth Road, Sheffield, 9, formerly carried on by Mr. J. E. Makin, M.P.S.

ORGANON LABORATORIES, LTD., Brettenham House, Lancaster Place, London, W.C.2, now have the following telephone numbers: Temple Bar 0251-52, and Temple Bar 6785-87.

Mr. J. K. Whelehan, M.P.S.I. (immediate past-president of the Pharmaceutical Society of Ireland) has been appointed compounder of medicines for the Mullingar dispensary district.

Jameson Chemists (Edmonton), Ltd., have acquired, and are continuing under the title Thacker & Co., the pharmacy at 8 Westbury Avenue, Wood Green, London, N.22, formerly carried on by Mr. M. E. Thacker, M.P.S. Accounts for goods supplied up to March 4 should be sent to Mr. Thacker's private address, 11 Hillerest Avenue, Temple Fortune, London, N.W.11.

#### LEGAL REPORT

N.I. Pharmacy Act Charges .- At Newry, co. Down, Northern Ireland, petty sessions, on February 18, Jack Daly and Co., Ltd., Mill Street, Newry, were prosecuted on three summonses under the Medicines, Pharmacy and Poisons Act. Crown solicitor, who appeared for the prosecution, said that Daly had been fined for three similar offences in July 1947. On this occasion he had advertised as a chemist in a programme produced by a local musical society. Daly's defence, which was borne out by a pharmacy inspector and by the treasurer of the musical society, was that he had been asked by the latter if he would give them the usual advertisement in the programme. He replied that he would and thought no more about it until the advertisement appeared, when he realised his mistake. The cases were dealt with under the Probation of Offenders Act.

#### THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

MR. E. H. KEELING asked the Secretary or the Colonies on March 3 whether he vas aware that there was a shortage of casava for making starch and whether he was aking any steps to stimulate cassava proluction in East or West Africa. Mr. REES-WILLIAMS (Under Secretary) replied: es. In both East and West Africa the prouction of cassava has always been enouraged as a reserve against famine. Norally only surplus stocks are available for xport. 5,000 tons is now being shipped om East Africa and it is hoped to export urther quantities later this year. Exports rom West Africa were discontinued during he war in favour of other crops, but the ossibility of reviving the trade is now nder consideration.

#### ummer Time

When the House of Commons approved motion fixing summer time this year from larch 14 to October 31, THE HOME SECETARY stated that there would be no period Double Summer Time this year.

#### pening New Businesses

There were many questions on March 4 out the difficulties of opening new busiesses. At one stage Mr. HAROLD WILSON id he was very concerned about the in-stence of some trade associations that aterial should be confined to those in the ade before the war; the matter was to be kamined. The questions began when AJOR GUY LLOYD asked the President of e Board of Trade which industrial and ading activities operating under the conol of his Department were open to new strants, and which were confined to those the same line of business prior to 1939. R. WILSON replied that the information as not readily available; he added that would be glad to give Major Lloyd inrmation about the practice in any parcular industries. Major Lloyd asked hether there was any actual "closed op" in any of these industries which forde the entrance of any industrialists or isiness people who were not in before. The reply was that there were a umber of controls where they were cessary, and the trade associations conrned were insistent that the allocation of aterial should be confined to those preously in the trade. It was one of the ings he had asked his new examiner of

controls to look into. It was a difficult thing to allocate materials to new entrants when existing firms were only manufacturing to the extent of about 30 or 40 per cent. of their capacity.

Mr. C. F. Byers: Does not the Minister appreciate that the insistence of a trade association is no reason for not altering the system? "I entirely agree," said Mr.

Wilson in reply.

#### Coupons for Colostomy Belt

Mr. T. J. Brooks asked the President of the Board of Trade if he was aware that three clothing coupons had to be surrendered before a colostomy surgical belt was supplied, and if he would remove that hardship. Mr. Wilson replied: Surgical belts of not more than 6 in. in width, specially designed for a number of specified conditions, including colostomy, are available coupon-free, but coupons are required for other types which cannot be thus clearly defined, because some can be worn in place of other rationed undergarments. My Department is always prepared sympathetically, to consider applications for special allowances. If Mr. Brooks will let me have particulars of particular cases I will be glad to look at them.

#### No Arbitration with Doctors

The Prime Minister (Mr. C. R. Attlee) turned down a suggestion for arbitration between Mr. Bevan and the doctors. He had been asked by Mr. De La Bere if, in view of the necessity of obtaining the cooperation of the maximum number of the medical profession before July 5, he would consider appointing an independent arbitrator for the purpose of finding a solution to the present impasse. Mr. Attlee said that the very grave position that must arise in July did not give any justification for Mr. De la Bere's proposals. He was prepared to consider any suggestion put to him.

#### Purchase Tax on Drugs

MR. B. Janner asked the Minister of Health whether he had made investigations into the extent to which the recent increase of purchase tax on a wide range of medicines, drugs, tooth-pastes and other such goods had resulted in increased demands on the health service. MR. ANEURIN BEVAN regretted that there was no reliable data for such an inquiry.

#### MARRIAGE

DEAN-JONES.—In London, on February 28, Alastair Campbell Ross Dean. B.Sc., Ph.C., A.R.I.C., to Nesta Jones, M.A., Bridgend, Glam.

#### **DEATHS**

BIRTLES.—On February 16, as the result of injuries received when he was knocked down by a motor-bus, Mr. Tom Birtles, M.P.S., 77 Norfolk Road, Sheffield, 2. Mr. Birtles qualified in 1924. He was superintendent of Stanley Marshall, Ltd., Thorpe Hesley, Rotherham.

BLANKLEY. — On February 23, Mr. George William Blankley, M.P.S., 97 Front Street, Arnold, Notts, aged eighty-three.

Brown.—On February 25, Mr. Thomas Brown, M.P.S., 52A Queen's Gardens, London, W.2, aged sixty-one.

Campbell. — On March 4, Sir Nigel Campbell, a director of Glaxo Laboratories, Ltd., Greenford. A colleague writes: "Sir Nigel joined the board of the company on January 3, 1947, and his exceptional knowledge and experience was of considerable benefit to the company. He had an enviable reputation in industrial and financial circles."

CUMBER.—On February 26, Mr. Charles Davis Cumber, M.P.S., 362 Wimborne Road, Winton, Bournemouth, aged eightysix,

GERHARDT.—At Okehampton, on March 2, after a short illness, Mr. Gerald Gerhardt, only son of the late Mr. C. F. Gerhardt. Mr. Gerhardt retired from active participation in C. F. Gerhardt, Ltd., drug merchants, some years ago owing to ill health.

LAIRD.—At his residence, 5 Neville Road, Rathgar, Dublin, on March 4, Dr. Harry Seymour Laird, L.R.C.P. & S.I., aged seventy-seven. The late Dr. Laird was registered as a Licentiate of the Pharmaceutical Society of Ireland in 1927. A native of Limerick, he was the proprietor of one of the largest retail pharmacies in that city: John Laird & Co. He served as a Major in the Royal Army Medical Corps in the first world war, and later spent a period as medical officer at Spike Island, co. Cork. He was a Governor of the Boys' and Girls' Masonic Schools, Dublin, and a member of the Limerick Boat Club, Milltown Golf Club, and Wanderers' Rugby Football Club. He leaves two sons and one daughter.

MACDONALD.—Suddenly, on February 29, Miss A. D. Macdonald, I Belgrava Terrace, Edinburgh, daughter of the late Mr. Robert Macdonald, chemist and druggist. Miss Macdonald, who was retired, was well known to many pharmacists in Scotland, having acted as inspector for the Pharmaceutical Society before the appointment of inspectors under the 1933 Act.

Marks.—At his residence, 6 Mellifont Avenue, Dun Laoghaire, on March 5, Mr. John Marks, L.P.S.I. Mr. Marks was registered in 1912. He was in business in Dun Laoghaire for some years.

PHILLIPS. — At 37 Highland Road, Bromley, Kent, on March 1, after a short illness, Mr. Henry Marcus Phillips, M.P.S., aged seventy-two. Members of the West Kent Branch of the Pharmaceutical Society, which was represented at a memorial service held at Christ Church, Bromley, on March 5 by Messrs. Cuthbert, Holden, Pring and Stewart, sent a wreath.

ROGERS.—At Connaught Hospital, Walthamstow, London, E.17, on February 25, Mr. Alford Rogers, M.R.C.S., L.R.C.P., aged seventy-four. Dr. Rogers qualified as a chemist and druggist in 1895. A native of Barry Port, South Wales, he studied medicine at Cardiff University and at St. Mary's Hospital, London. From 1906 he was in practice at Highams Park, E.4.

Spreckley. — On January 30, Mr. Harold Charles Spreckley, M.P.S., 10 Halcombe Avenue, King's Lynn, aged forty-eight. Mr. Spreckley was a director of Metcalf & Spreckley, Ltd., 5 Norfolk Street, King's Lynn.

STELFOX.—On February 10, Mr. John Arthur Stelfox, Ph.C., 11 Aughton Road, Birkdale, Southport, aged seventy-seven. Mr. Stelfox qualified in 1892 and passed the Pharmaceutical Chemist examination in 1893.

WHYTE.—On February 12, Mr. Alfred Adolphus Whyte, M.P.S., Ianstown, Buckie, Banffs. Mr. Whyte qualified in 1905.

#### WILLS

MR. J. H. CHAUNDY, M.P.S., 31 St. John Street, Oxford, left £3,638, with net personalty £3,595.

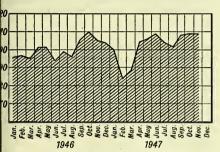
Mr. H. J. Parkinson, M.P.S., 13 Hartington Road, St. Margarets, Middlesex, left £178.

MR. PERCY E. MARMION, Firlands, Reigate Road, Reigate, Surrey (a director of Fisons, Ltd.), left £140,740, with net personalty £140,619.

MR. J. M. GEOGHEGAN, 7 Randolph Cliff, Edinburgh (chairman of T. & H. Smith, Ltd., Blandfield Chemical Works, Edinburgh), left £31,900.

#### INTERIM INDEX OF PRODUCTION

THE Board of Trade states that its new interim Index of Industrial Production is o be regarded as provisional until the esults of the 1948 Census of Production re available. The index is prepared by the Central Statistical Office, and is intended to provide a general measure of



HEMICALS: Figures at left represent percentages of the monthly average figure for 1946

nonthly changes in the volume of indus-rial production in the United Kingdom. Transport, distribution, commerce and serices are excluded, but all types of prouction, whether for the home market, for xport, or for the Armed Forces, are overed, and the index is based on about oo individual production series, almost all f which represent physical quantities pro-The level of production in each nonth is expressed as a percentage of the verage monthly production in 1946. In rder to ensure comparability between lifferent months, adjustments have been nade, where necessary, for variations in he number of days (excluding Sundays) in ach month, but changes in production aused by public and other holidays, or by easonal factors (for which no adjustments ave been made), are reflected in the index. n combining the individual production cries to form index numbers for groups of adustries, the general method has been to llocate to each industry or trade a weight" (e.g., chemicals are given a weight" of 10, out of a total of 1,000) roportional to the estimated relative net utput in 1946. The estimates are based n (i) the net output of different industries 1 1935, as shown by the Census of Prouction; (ii) estimates of the net output of mall firms not covered by the Census of roduction; and (iii) estimates of changes the total wage-bill in each industry between 1935 and 1946, obtained from the numbers of insured persons employed and average weekly earnings. Each main industry group is given its proper weight. "In form, the index is a weighted arithmetic average."

#### **PERSONALITIES**

Mr. A. J. Plowright, Ph.C., who has been given the title of Assistant Secretary of the Pharmaceutical Society (see p. 345), was educated at Hurstpierpoint College, Sussex, and served his apprenticeship with his father, Mr. John Plowright, Ph.C., Brighton. After studying in the school of pharmacy, Brighton Technical College, under Mr. H. B. Mackie, B.Pharm., Ph.C., at which he was awarded the Eastbourne Pharmacists' Association medal for botany and the Edmund White medal for the best student in the final year, he qualified as a chemist and druggist in 1926. Among the first to take the two-year Ph.C. course when it was introduced by the Council, he passed the Pharmaceutical Chemist Qualifying examination in 1928. Following various retail and institutional "locums during college vacations, including an appointment as senior assistant with Beetham & Clark, Cheltenham, he was appointed to the administrative staff of the Pharmaceutical Society in December 1928.

MR. GEORGE NICHOLAS, Ph.C. (Victoria), who has announced his retirement as chair-

man of Nicholas Pty., Ltd., Melbourne, manufacof Aspro, turers qualified in 1908, and after many years in employment opened his own pharmacy at St. Kilda, a seaside suburb three miles from Melbourne. When the war of 1914-18 broke out Australia was cut off from supplies of aspirin, and the



Australian Government announced that it would assist and protect from post-war litigation any person who successfully synthesised the drug in Australia. By early 1916 he was in the office of the Prime Minister of Australia with a process for aspirin powder. Under the trade name Aspro he began commercial manufacture of the drug in premises at the back of his shop.

#### TRADE NOTES

Lyons Trade Fair. — An International Trade Fair is to be held at Lyons, France, April 3-12.

Belfast Agency.—Fred Storey, Ltd., 732 Ann Street, Belfast, have been appointed agents in Northern Ireland for Eucryl, Ltd., Southampton, manufacturers of Eucryl dentifrices and Luce's soapless shampoo.

Price Reduced. — From March 22 the trade price for Invalid Lembar is being reduced. Details will be given by the manufacturers, Rayner & Co., Ltd., London, N.18, in the March 20 issue of the C. & D.

Again in Supply.—Wilcox, Jozeau & Co., Ltd., 74 White Lion Street, London, N.I., announce that cachets Faivre (Dr. Faivre brand cachets of oxyquinotheine) are again available (quality and pack as prewar). They are issued in boxes of twelve.

Reintroduced. — Good stocks are again available from the Crookes Laboratories, Ltd., Park Royal, London, N.W.10, of Collosol iodine oil and Collosol iodine oil with methyl salicylate in 4-oz. and 80-oz. sizes.

Purchase Tax on Medicines. — Over 2,000 reprints of the article "The case against the imposition of purchase tax on drugs and medicines" (C. & D., February 21, p. 242) have already been distributed. Applications for copies, stating number required, should be addressed to the Editor.

Lather Cream for Shaving.—Peat Products (Sphagnol), Ltd., 3 Carmalt Gardens, Putney, London, S.W.15, have introduced a new product, Sphagnol soap shaving cream, which "incorporates the tonic properties of Sphagnol tar." The cream is issued in a 2-oz, white flint-glass jar.

Electronic Process Timer. — Electro Methods, Ltd., 220 The Vale, London, N.W.II, have introduced a new model (TDX-2) process timer for use where high accuracy in timing is essential. The time of the instrument range is from \(\frac{1}{2}\) to 60 seconds, adjustable smoothly on one single control. A dial is provided for time selection.

Chemical Stoneware. — Hathernware, Ltd., Loughborough, Leics, have published a new illustrated price list of Hathernware chemical stoneware. The list, which is available free to inquirers upon request, comprises eight quarto pages and gives details of vessels and jars; taps, cocks, pipes and fittings; and other apparatus.

Permanent Export Showrooms.—International Business Services, Ltd., opened at 14 Arlington Street, London, S.W.1, on March 17, a permanent export showroom as a meeting-place for exhibitors without London offices. Twenty-five exhibitors have taken space, including the makers of Gala cosmetics and Prosit perfumes. In addition, the British Export Trade Research Association has reserved space for the use of its members.

Unchanged.—Don S. Momand, Ltd., 57 Albany Street, London, N.W.I, point out that Alka-Seltzer tablets have always been chemically stable. The statement in these columns last week that "Alka-Seltzer is now being issued in a chemically stable effervescent tablet" was intended to emphasise that that is the unique feature of Alka-Seltzer, in which acetylsalicylic acid, sodium bicarbonate and citric acid are incorporated in each tablet.

Export Success.—J. Billig & Sons, Ltd., Biltin Works, 97 Fonthill Road, London, N.4, state that they have now sold over 350,000 Totty-pot infants' training chambers and that, in the manufacture of this quantity, 80,000 lb. of rubber was used. A consignment, while being shipped overseas, was enveloped in a fire that broke out on board. The Totty-pots, though afterwards found submerged in sea water. came through unharmed owing to the effectiveness of the anodising process.

Expansion Plans.—At a conference in Melbourne, Australia, in 1947, attended by executives from France, the United King-



French, British, Middle East and New Zealand representatives at the Aspro works, Melbourne.

dom, the Middle East and New Zealand, Nicholas Pty., Ltd., announced plans for expansion. During the 1939-45 war the company developed the manufacture in Australia for the Australian Government of sulphaguanidine and other drugs. Tablets of mepacrine and various sulphonamides were supplied free of profit to the Allied forces in the South-west Pacific Zone. A subsidiary (Australian Fish Derivatives) has been engaged since before the war in extracting shark liver oil from sharks caught in Australian waters. The company's British associate, Aspro, Ltd., was established in 1027.

"Scottish Chemist" Annual. — The 1948 annual issued by the publisher of the "Scottish Chemist," 240 Albert Drive, Pollokshields, Glasgow, S.1, includes, in its directory of Scottish pharmacies, every change of ownership to December 31, 1947. as recorded week by week in The Chemist and Druggist, every hospital and the leading medical and surgical consultants, over 100 wholesale suppliers with established business connections in Scotland, and the addresses of nearly 150 of their resident representatives. Notes on newest remedies by the editor (Mr. William Mair, F.R.S.E.) include recent advances. The price is 3s. 6d. per copy.

Moth Rings. — Promedico Products, Ltd., 21 Turle Road, London, N.4, state



that they are in full production with a junior version of their speciality Promol moth rings; the new variety is to be distributed in packs of eight rings in a display carton as illustrated in the preceding column.

New Proprietaries .- Brooks & WAK-BURTON, LTD., 232 Vauxhall Bridge Road, London, S.W.1, are the sole distributors of Sleepax tablets, for which an advertising campaign has just commenced. The product is issued in 18-tablet glass tubes and orders may be placed through wholesalers or direct.—Newbery & Phillips, Ltd., Victoria House, Southampton Row, London, W.C.1, are distributors for the manufacturers (C. Draper, Ltd., Twyford, Berks), of a new anti-dandruff soapless shampoo entitled Hiolite, local advertising for which-now in progress-is later to be followed by national advertising.—UNIVER-SAL EMULSIFIERS, LTD., Invicta Works, East Malling, Kent, have entered the pharmaceutical field with a new product Unemul insect-repellent cream, the active agent of which is dimethyl phthalate; the preparation is issued in jars of one size.

#### Proprietary Articles Trade Association

Additions to Protected List (Part 1). — H. R. Napp, Ltd., Abecedin tablets, 21's, 38s. doz., 4s. 3d.; 105's, 178s. doz., 19s. 9d.; 500's, 67s. 6d. each, 90s.; 1,000's, 133s. 1d. each, 177s. 6d. Abecedin emulsion, 4-02., 54s. doz., 6s.; 16-02., 17s. 1d. each, 22s. 9d. (all exempt from tax). Caapi tablets, 12's, 13s. 6d. doz., tax 33 $\frac{1}{3}$  per cent., inclusive retail price 1s. 11d.; 200's, 108s. doz., tax 33 $\frac{1}{3}$  per cent., i.r.p. 35s. 9d. Ramınal tablets, 50's, 49s. 6d. doz., tax 33 $\frac{1}{3}$  per cent., i.r.p. 6s. 11d.; 200's, 14s. 5d. each, tax 33 $\frac{1}{3}$  per cent., i.r.p. 24s. 1d. Sedonan, 22s. 6d. doz., tax 33 $\frac{1}{3}$  per cent., i.r.p. 5s. 4d.

Alterations (Part 1).—Benger's, Ltd., Benger's food, 8-oz., 198. 4d. doz., 2s.; 16-oz., 34s. doz., 3s. 6d.; 2-lb., 6os. doz., 6s. 2d. (all exempt from tax). Prices of 5-lb and 10-lb. sizes also increased, but not included in list.

Moore Medicinal Products, Ltd., Extra-rapid Sodasphen tablets (new formula), tube of fifteen, 13s. 2d. doz., tax 33\frac{1}{2}, per cent., i.r.p. 2s. od.

Potter & Clarke, Ltd., Buchanan's skin-clear soap, 6s. 9d. doz., tax 50 per cent., i.r.p. 1s. 2d. Alterations (Part 2).—Thos. Harley, Ltd. Prices

Alterations (Part 2).—Thos. Harley, Ltd. Prices and terms in Eire, Rodine rat-poison, 11d., 7s. 3d. doz., 1s. tod.; 14s. 6d. doz., 3s. 8d.; 29s. doz., 7s. 4d., 58s. doz. Minimum order of 43s. 6d. (assorted), carriage paid less 10 per cent. cash with order. Distributing agents in Eire: May, Roberts (Ireland), Ltd., Grand Canal Quay, Dublin, C.6.

Wright, Layman & Umney, Ltd. Increased prices, March 1, Wright's coal-tar shaving-stick refills, 115. 5d. doz., tax 50 per cent., i.r.p. 15. 9d. Wright's coal-tar shaving-sticks in plastic containers (new), 15s. 5d. doz., tax 50 per cent., i.r.p. 25. 4d

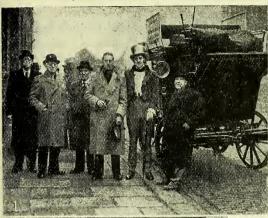
#### C. & D. DISPENSING PRICE LIST

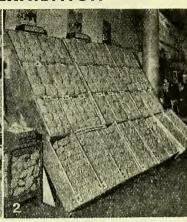
The following price changes which occurred during February should be noted. They are more numerous than usual on account of a general increase by an average of 5 per cent. in prices charged by the Wholesale Drug Trade Association for a

wide range of drugs and galenicals. The increase, with purchase tax added, is brought up to an average of about 6.7 per cent. Items on the retail price of which the increased cost has only a slight effect have not been included. A few are held over.

Wholesale Brug Trade Association for a not been in						cen meradea. A le	w alc	iiciu (	over.		
~		Due allowance has				1		Due allowance has			
Cost		been made for	Dispensing			Cost		been made for			ng
		purchase tax at	price		,		purchase tax at		price		
		current rates in both					current rates in both				
		cost and dispensing	4.07	1 OZ.	ı dr.			cost and dispensing	4		1
d.	per	prices	4 oz. s. d.	s. d.	s. d.	d.	per	prices	4 oz.	I oz.	ı dr.
			3. u.	s. a.	3. u.				s. u.	s. d.	s. d.
27	dr.	Acetarsol S.J. (4)	per gr.	0 1	4 0	84	lb.	Lin. aconiti meth. S.I.			
43	lb.	Acet. rubi idaei	ı 6	0 5			1.0.	(5)	3 0	0 10	0 2
78	lb.	Acet. cantharidis S.I.				20	oz.	Liq. atropinæ sulph.	3	0 .0	0 -
, ,		(5)	2 10	0 9	0 2			S.I.(5)		3 0	0 5
16	oz.	Acid. gallicum	-	2 4	0 4	144	lb.	Liq. ferri peptonatis	5 4	1 5	0 3
80	lb.	Acid. hypophosph. dil.	3 0	0 10	0 2	8	Ib.	Liq. hyd. perox. 10 vol.			
16	oz.	Acid. tannicum	-	2 4	0 4		71	lb. is.	0 4	0 13	-
26	lb.	Adeps benzoatus	1 0	o 3½ o 8	0 13	12	lb.	Liq. hyd. perox. 20 vol.		1	
66	lb.	Alcohol lanæ	3 8	0 8	0 15	112	Ib.	lb. 1s. 6d Liq. iodi mitis	0 6	0 2	-
100	oz.	Aloe Curação pulvis Amidopyrina & only	3_8	12 9	2 0	104	lb.	Liq. rhei dulcis, B.P.C.	3 6	I 0	0 2
8	oz.	Ammoniaci pulvis		I 2	0 2	36	lb.	Magnes. chlorid. pur.	4 6		0 21
196	lb.	Ammon. mandelas 50%		·		45	lb.	Magnesia levis	1 7	0 5	
190		sol	10 6	3 3	0 6	66	lb.	Magnesia ponderosa	2 5	0 8	
69	lb.	Ammon. phosphas acid	2 5	3 3 o 8	0 2	45	lb.	Mel boracis	2 3	0 8	0 2
38	oz.	Aqua pimentæ conc.	1 3			10	oz.	Ol. anisi		ı 6	0 3
-		I-40		5 7	0 10	38	oz.	Ol. chenopodii			1 9
30	lb.	Aurant. cort. sicc. exot.	I I	0 4 0 8	_	227	lb.	Ol. eucalypti glob.	8 2	2 6	0 41
64	lb.	Bals. sulphuris	2 4	0 8	0 2	120	lb.	Ol. eucalypti	4 3	I 2	0 2
92	02.	Barbitonum & only Benzoinum Sumatra			2 2 0 1 1 5	18 60	oz.	Ol. graminis citrati		2 8	0 5
84	lb.	Berberinæ sulphas	3 0	0 10	0 $1\frac{1}{2}$ 0 5	56	QZ.	Ol. lavandulæ Gall. Ol. pimentæ Ang		8 9	I 5
125 80	dr.	Caffeina	per	gr.	1 10	34	OZ.	Ol. pini sylvestris			1 4
29	oz.	Calcii acetylsalicylas		4 4	$0 7\frac{1}{2}$	78	oz.	Ol. santali E.I.		5 0	0 9
23	oz.	Cambogiæ pulvis		2 11	0 5	87	lb.	Ol. theobromatis	3 2	0 10	0 2
32	lb.	Cetraria	1 2		-	17	lb.	Paraffinum durum	3 -	0 10	0 -
69	lb.	Cinnamomi cort. pulvis	2 5	0 4 0 8	0 2			lb. 2s. 2d	0 8	0 2	_
30	lb.	Coriandri pulvis	1 I	0 4	-	25	lb.	Paraffinum molle	1		
120	dr.	Cocaina D.D	per gr.	0 5	17 6		.,	album, lb. 3s. 2d.	1 0	0 3	_
105	dr.	Cocainæ hydrochlor.,				20	lb.	Paraffinum molle			
- 0		D.D	per gr.	0 45	15 4		Ib.	flavum, lb. 2s. 6d. Paraldehydum	0 10	0 25	-
16	oz.	Collod. styptic. meth., B.P.C.		2 4	0 4	52	gr.	Physostigmina S.I.(4)	per	0 61	O I
36	oz.	Collodium vesicans,		^ 4	· 4	19	gr.	Physostigmin. salicyl.	per	gr.	3 4
30	UZ.	B.P.C.		5 4	0 9	- 3	5	S.I(4)	per	gr.	2 8
39	lb.	Cremor zinci B.P.C.	1 4	0 41		304	dr.	Pilocarpina	per	gr.	1 0
30	lb.	Curcumæ pulvis	1 1	0 4		149	dr.	Pilocarpinæ hydro-			
183	lb.	Elixir aromat., B.P.C.	7 1	2 1	0 4			chlor	per	gr.	0 6
33	oz.	Ext. bellad. liquidum,				76	oz.	Podophylli resina			
		S.I.(5)		4 10	0 9	0	.	(emodi)	- 1		1 9
16	OZ.	Ext. cinchonæ iiq	6 10	2 7	0 5	128	oz.	Podophylli resina (peltatum)			
192	Ib.	Ext. ergot. liq. S.I. (5) Ext. ergot. liq. '14 S.I.	6 10	2 0	0 4	90	lb.	Potassa caustica (stick)			3 0
208	Ib.	(5)	7 5	2 1	0 4	90		P.II(15)	3 2	0 103	
51	oz.	Ext. fellis bov. pulv.	·		1 1	175	lb.	Potassii iodidum	$\begin{bmatrix} 3 & 2 \\ 6 & 3 \end{bmatrix}$	1 10	0 3}
45	oz.	Ext. krameriæ sicc		7 5 6 8	1 0	88	lb.	Pyrethri rad. pulvis	3 2	0 11	0 2
61	lb.	Ext. malti liq. c. gly-				128	lb.	Pulv. rhei co	4 6	1 3	0 2
		cerophos	2 8	0 9	. —	30	oz.	Safrol	-	4 5	0 8
52	OZ.	Ext. rhei pulvis	_	- !	1 1		oz.	Salol		3 1 1	0 51
27	OZ.	Ext. rhei liq	-	3 10	0 7		oz.	Sandarac		1 9	0 3
74	lb.	Ferri et ammonii citras	2 8	0 9	0 2		oz. lb.	Sang. dracon, pulv		4 0	0 7
15	oz.	Ferri et mangan. citras Gelatinum (sheet)	4 9		0 4 0 21	39	lb.	Sapo durus pulv	1 5 1 5	0 42	
132	lb.	Glyc, amyli	4 9 2 3	0 7	0 I		oz.	Senegæ rad. pulv	I_5	3 9	0 7
108	lb.	Glyc. pepsini, B.P.C.	4 4	1 3	0 23		lb.	Sodii bicarb. lb. gd.	0 3	0 1	· /
17	gr.	Homatropina S.I.(4)	per	gr.	2 6		Ib.	Sodii phosph. pulv.	3		
15	gr.	Homatrop, hydrobrom.	1					exsicc	1 4	0 5	0 1
3		S.I.(4)	per	gr.	2 2		lb.	Sodii thiosulphas pur.	0 4	$O I \frac{1}{2}$	
102	lb.	Hydrargyrum	3 8	0 1	0 2		oz.	Styrax	-	3 3	0 6
21	gr.	Hyoscyamina S.I. (4)	per	gr.	3 0	72	lb.	Syr. glycerophosph.			
136	lb.	Icthammol	4 10	I 4	0 3	92	lb.	Syr. mori, B.P.C.	3 4	0 11	0 2
104	lb.	Inf. rhei conc	3 9	1 0	0 2	92	TD.	Syr. mori, B.F.C	4 2	1 2	0 2

#### "GOLDEN YEAR" EXHIBITION







For the opening of the "Golden Year" exhibition and Meritor display staged at the Exhibition Centre, London, W.C.2, March 2-13, by S. Maw, Son & Sons, Ltd., New Barnet, one of the company's directors arrived by two-horse brougham, accompanied by three veteran employees. They were met by a costumed impersonator of the company's first traveller (R. W. Pegg) of a century ago. From the start, visitors were numerous. The most distant was Mr. Lee, New Zealand. All were full of commendation for the company's enterprise in putting on the display at the present time. The pictures show:—

1. Veterans of the company with Mr. Vernon S. Porter (a director). 2. A display of sponges, 3. Reception counter. 4. Signs and display material. S. Ray-therapy apparatus and fluorescent lighting,





#### MR. MALLINSON REPORTS PROGRESS

The secretary of the National Pharmaceutical Union describes how proprietor pharmacists will be affected by the National Health Service.

More than 200 pharmacists heard Mr. G. A. Mallinson, O.B.E. (secretary, National Pharmaceutical Union), report at Ilford on March 2 on the progress made in negotiations for chemists' terms under the National Health Service. He was speaking at a meeting organised by the Ilford, Barking and West Essex, Walthamstow and West Ham Branches of the N.P.U., and the East Metropolitan Branch of the Pharmaceutical Society. Mr. M. Blumenthal (chairman, West Ham Branch N.P.U.) presided.

#### Dispensers to the Nation

The National Health Service, said MR. Mallinson, offered pharmacists the opportunity for which they had so long been fighting—to be dispensers to the nation. It was disheartening to find that some pharmacists were unenthusiastic about dispensing because attention to the counter yielded richer dividends. Such an attitude was a negation of the calling of pharmacy, and was shortsighted even as a business point of view. Present retail trading conditions would not necessarily continue for ever, and National Health Service dispensing would provide a valuable second string to the retailer's bow. Under the Service pharmacists would receive enhanced status and wider business opportunities: almost the whole population would acquire the habit of visiting the chemist's

The actual financial terms of the N.H.S. contract, continued Mr. Mallinson, had not yet been settled, but there had been no suggestion that present N.H.I. rates should be continued. The Working Party, which had been visiting some 360 pharmacies in England and Scotland, was preparing its report on pharmaceutical practice in the two countries, and a survey of the cost of dispensing made by the Joint Committee on a National Pharmaceutical Service was now ready. Both had to be com-pleted before actual terms could be discussed. In the meantime, the Ministry of Health had made several gestures of goodwill; one was the 30 per cent. oncost allowance on N.H.I. ingredient costs—an indication that the Ministry would not be niggardly in paying for a willing pharmaceutical service; another was the decision that the system of deposit charges on bottles, for so long a source of irritation under N.H.I., would be discontinued under N.H.S. The Contractors' Committee would ask for the terms to include some protection against the prescribing of large

quantities on single scripts.

Describing the new Pharmaceutical Functional (Whitley) Council (see C. & D., February 28, p. 262), Mr. Mallinson said it was not intended to take over the negotiations on contractors' terms. Each section of the National Health Service would have its own Whitley-type Council to provide an easy way in which grievances from either side could be easily and speedily considered; the Councils provided direct access to representatives of the Ministry of Health. The "staff" side of the Whitley Council for pharmacy was divided into two sections: representatives of the contractors, and representatives of pharmacists in hospitals, etc.; each section would look after its own interests without interference from the other, and with no possibility of outvoting each other.

#### Pricing Problems

A difficult problem which had to be solved before the appointed day was that of script pricing. There was already considerable delay in some pricing bureaux; if arrears accumulated until July 5, when the volume of dispensing was likely to be at least doubled, there would be chaos. N.P.U. headquarters had accordingly been working out, for presentation to the Minister, more satisfactory methods of payment under the new service: the present decimal system of payment would not be acceptable. Mr. Mallinson pointed out that various averaging schemes now being used in some areas were intended solely to help clear present arrears in N.H.I. payments -they were not methods that would be acceptable under the N.H.S.

For the next generation or two at least, said Mr. Mallinson, the chemist was likely to have to rely for his living largely on his dispensing service. Health centres were an integral part of the scheme, and must eventually come into being, but there need be dispensaries in the health centres only if retail pharmacists made them necessary, either by giving an unsatisfactory service or by giving a service that was unduly extravagant in cost to the public. Possession of a pharmaceutical qualification was in itself of no value: a chemist's worth depended entirely on the value the public placed on his services. The National Health Service should provide a great opportunity; the chemist, if he responded to it, need have no fear for the future, either from a professional or from a business point of view.

Mr. Mallinson then proceeded to answer questions which, with his answers, are sum-

marised below :-

What will be the N.H.S. hours of service? They are not settled exactly, but a normal day might be 9 a.m.—6 p.m. It might be possible to arrange evening service (by rota) with payment at special rates for the extra time, irrespective of the number of prescriptions dispensed. Sunday, holiday and night services might be arranged and paid for similarly,

#### Position of Employees

What is the position of the retail-employee pharmacist? He will be represented on local Pharmaceutical Committees (an advance on the present situation) and N.H.S. contracts between Executive Councils and employers will probably include a fair-wages clause.

Is an extended list of sundries and appliances likely to be supplied through retailers? Will chemists supply maternity outfits? An extended list of appliances has been agreed, but the maternity outfit is not at present considered by the Ministry to be a normal chemists' supply. It will probably be supplied by local health

authorities through midwives.

Must chemists accept the Ministry's When terms have been fully explored with the Ministry, the N.P.U. Contractors' Committee will communicate with every branch and every Pharmaceutical Committee; meetings will be held at which the proposals can be discussed and explained. Finally the Contractors' Committee will seek authority from a conference of N.P.U. branches and a conference of representatives of Pharmaceutical Committees, to go ahead. If such conferences reject the terms, it may be necessary to conduct a plebiscite of all potential contractors.

#### Dispensing in Rural Areas

What arrangements will be made for dispensing in rural areas? It is not likely that all dispensing by doctors in rural areas will cease. The N.P.U. will urge that no doctor should dispense when there

is a chemist reasonably near. The problem is more difficult when there is no local

What is the attitude of the company chemists and "Co-ops"? Will they offer cheaper terms to the Ministry? The N.F.U. has always kept in close touch with the company chemists and the co-operative societies. The companies have provided statistics which have usefully backed up those obtained from private shops. The companies have never hitherto gone behind the backs of the N.P.U. in regard to terms. and there is every reason for thinking there will be no change in that respect.

What increase in dispensing is to be expected under the N.H.S.? Dispensing will probably be at least doubled-possibly

more than doubled.

Who will supply medicines for children? Some provision is made in the school medical services and in clinics, but except when specialist clinic services are required. the average parent is likely to prefer his children to be treated by the family doctor, the chemist supplying the medicine.

Will doctors be allowed to dispense for their remaining private patients? Yes, for private but not for N.H.S. patients.

#### Resolution of Confidence

During the evening Mr. G. T. HOOKER proposed a resolution expressing the utmost confidence of the meeting in Mr. Mallinson and the N.P.U., and supporting any action taken by them to obtain equitable payment for chemists. The resolution was carried with no votes against. A vote of thanks to Mr. Mallinson was proposed by Mr. S. CLIFFORD JONES (chairman, East Metropolitan Branch, Pharmaceutical Society) and seconded by Mrs. W. R. W. Thompson (chairman, Ilford, Barking and West Essex Branch, N.P.U.).

Supplies of Packing Materials.—At the annual meeting of the Closure Manufacturers' Association on February 26, Mr. John Ryan (chairman) reviewed the supply His Association had been position. assured, he said, that proposed reductions in cork imports would not apply to closures, and that supplies would probably continue at 1947 levels. If coal exports to Sweden increased, paper and board might become more plentiful. The Association had not been able to recommend to the Board of Trade any relaxation of marking restrictions on closures as supplies of the materials involved showed no-signs of any substantial increase.

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#### INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

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#### CHEMIST AND DRUGGIST

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#### Retail Employees' Plight

INELIGIBLE to be represented on the newlyformed Whitley "machine" because they happen to work for private employers instead of for voluntary or municipal hospitals, pharmaceutical employees who work in shops—one of the largest groups in the profession—may well be wondering what is to be their status after July 5.

True, they have a half share in the National Joint Industrial Council for Retail Pharmacy. True, too, that the J.I.C. has recently issued new wage scales which are an advance on the previous levels. On the other hand, retail employees see their employers lined up on the same side of the Whitley table as the public pharmacists, who are themselves employees and subject to minimum wage scales little better than their own. There is an obvious risk that the "employers" side of the Whitley Council (i.e., the Government, health authorities, etc.) may come to regard all those who face them at the table as being on a par with one another, both pharmaceutically and economically. If this should lead the Ministerial side to regard proprietor pharmacists as unnecessarily expensive to the State, what more natural than that the contractors' remuneration should be reduced? In that event it might become too costly for the proprietors to employ pharmacists, and cheaper labour would have to be sought. (Mr. Linstead, it may be noted, pointed out at Hanley recently (see p. 348). that there will shortly become available a miniature army of Apothecaries' Hall dispensers of whose services the doctors will,

under N.H.S., no longer stand in need.) What means have the employees to safeguard themselves against either (i) being forced into unemployment or (ii) having to accept reduced rates of pay? Trade unions? But only a minority are members of a union, and even those are dissipated in small groups, some in the Association of Pharmaceutical Employees, some in the Association of Scientific Workers, others in the Registered Pharmacists' Union, and a few, maybe, in the Confederation of Health Service Employees. In none of these have employees in pharmacy a bargaining weapon that is exclusively their own; they have to choose whether to link up with shop assistants, professional scientists, self-employed pharmacists or undefined "health workers" (who are believed to consist largely of unqualified dispensers). wonder, then, that so many fail to join any organisation, or that those who show, by becoming active in a trade union, that they are most aware of the handicaps of working in a shop seem also to be those who, at the first opportunity, abandon the retail field for hospital or wholesale work.

Can retail employees look, then, to the Pharmaceutical Society? They pay the same fees as employers and are estimated at about half the membership of the Society. Are they not entitled to some protection of their interests? The unhappy fact is that the Society cannot even act impartially on behalf of all its members but must, if it takes any protective action at all, take it on behalf of chemists and druggists keeping open shop. As if to see that there is no deviation from the Charter in this respect, the Council numbers among its members a high proportion of National Pharmaceutical Union leaders.

There seems only one way out of the employees' difficulty, and unfortunately it is a way that has been attempted many times before without success, namely, to form an exclusive organisation embracing a majority of pharmacists employed in shops. It may be that this outcome is indeed impossible, and that previous failures are doomed to be repeated. Certainly there are many obstacles to success. There has first to be a strong and widespread understanding of the need, there must be

persons enlightened enough to take the lead, and there must be funds. The urgency of the situation may create the first two desiderata. Money is the greatest problem. It cannot be forthcoming, as has been pointed out, from the Society, and the N.P.U. may seem of all sources the most unlikely. But the employers may, in fact, have no wish to substitute unqualified for qualified assistance. No doubt a strong employee organisation could force up wage rates, which would not be pleasant to the proprietors under free competition. in negotiating terms with the Ministry an unyielding wage scale can be effectively used, and it is surely better to have employees who are satisfied rather than employees who are agitating for the establishment of health centres where they may hope to secure more agreeable employment.

#### Control of New Toxic Drugs

THE recent inquiry at Stockport (C. & D., February 14, p. 209) into the accidental death of a nine-year-old child following the use of Tridione for epilepsy shows the need for suitable clinical control over the introduction into medicine of chemotherapeutic substances of relatively unknown poten-Tridione (the proprietary name tialities. for 3:5:5-trimethyl-oxazolidine-2:4-dione) is one of a number of organic compounds which exert profound effects on the nervous system but of which little is known in this country. It has met with success in America in controlling the "petit mal" type of epilepsy, but is issued with the proviso that precautions must be taken to avoid toxæmia. In particular, any undue irritation or the appearance of a rash must be watched for as a danger signal necessitating the reduction or withdrawal of the treatment.

The child at Stockport responded to Tridione in hospital and the treatment was to be continued at home. The parents, however, had not been warned to watch for a possible rash, and when this unfortunately appeared on the day after the child had left hospital, it was diagnosed as suspected scarlet fever. The child was taken to an isolation hospital and a week later died, the toxic effects of two capsules per day for about ten days having resulted in about

one-third of the body being denuded of skin. The hospital physician admitted his error in not warning the parents of the dangers attending the treatment, but added that he did not realise that fatal effects could be produced in so short a time. As already reported, the jury recommended that Tridione should be added to the Poisons List, and the evidence at the inquest showed that the makers had already advocated such a safeguard, stressing also the need for constant medical supervision in using the drug. Nevertheless, the addition of such compounds to the poisons list is a procedure inadequate to meet the general situation created by the use of medicaments of unknown toxic effects. The poisons lists are already overburdened with problematical poisons and inclusion of a substance therein suggests that the public has access to it either as a medicine or for domestic use.

The success attending the use of barbiturates and sulphonamides has stimulated research to such an extent that the marketing of new products tends to outrun clinical experience, yet the scheduling of the two groups of compounds as poisons has not averted carelessness in their use. Some form of control is obviously necessary. There have been occasions when forethought has been given to preventing possible undesirable consequences from using even a comparatively innocuous substance, such as penicillin, but in other ways, as with the official attitude to repeat prescriptions for barbiturates, and the introduction of new medicaments such as Tridione, the road to mishaps is left wide open. provide opportunities for undesirable types of self-medication.

There is a clear case for requiring potent new chemical products to be submitted to proper clinical trials before being prescribed or supplied to the public for medicinal use. The Medical Research Council would appear to be the proper body for the purpose, collaborating with the Poisons Board when there is need to schedule the new substance as a poison. There is also a call for investigating the most suitable ways of dispensing all new products, and this could well be the responsibility of a pharmaceutical research body if and when it is set up.

#### **REGISTRAR'S REPORT FOR 1947**

THE Registrar of the Pharmaceutical ociety (Mr. Hugh N. Linstead) states in is annual report that the Society's inspecors visited approximately the same number f premises in 1947 as in 1946. An increase n visits to the premises of listed sellers of Part II poisons on behalf of certain local uthorities was due to the larger number of etailers to be visited in the towns concerned nd not to any increase in the number of ocal authorities taking the service. uthority terminated its arrangement with he Society at the end of the year. Of fiftyour instances in which proceedings were aken, fifteen cases arose out of reports rom agents carrying out the duty of reguarly visiting drug stores to make test purhases. There was a slight decrease in the number of cases in which it was necessary o institute proceedings, An increase in the number of unqualified traders proceeded gainst (forty-five cases against thirty-two n 1946) was attributed to increased busiless activity generally. A noticeable drop occurred in the number of prosecutions gainst pharmacists (ten in 1947 against wenty-eight in 1946). The Society lost in appeal against a decision of a summary ourt concerning the use of the title "chenist" on retail premises not under the jualified control of the owner or other pharnacist. Another decision given in favour of the Society was upheld on appeal by the Hefendant. The Society again had occaion to institute proceedings under the Merchandise Marks Acts (such cases arise where, in examining disclosures of compoition of a medicine, a false trade descripion is discovered, in respect of which action loes not lie under the Pharmacy Acts).

#### Poisons

A magisterial decision in proceedings aken by a police authority questioned the power of the Secretary of State to make Rules under Section 23 of the Pharmacy and Poisons Act, 1933, where such Rules attempted to control the use to which poisons should be put by the purchasers thereof, and found that such a Rule, introduced n the Poisons (Amendement) (No. 2) Rules, 1940, was ultra vires. The Rule concerned was dropped when amendments to the Poisons Rules were introduced during the year. During the year also the Council issued a statement on the interpretation of the words "for the purpose of trade or business," as used in Section 20 of the 1933 Act. Representations were received urging

the imposition of some limit on the duration of the validity of indefinite "repeat" prescriptions for Fourth Schedule poisons, and it was decided to consult the medical profession on the matter.

Consent was obtained to institute proceedings in respect of sales of recommended medicines from market stalls. Proceedings were instituted in respect of the illegal sale of a recommended B.P.C. substance by a person not authorised.

#### Registrations

Pharmacies registered at the end of 1947 were 344 more than in 1946 (approximately 1,000 fewer than in 1940). New registrations have resulted from conversion of wartime drug stores to pharmacies. During the

On Registers, December 31	1947	1946
Pharmaceutical chemists	1,814	1,776
Chemists and druggists	23,396	23,474
Temporary registrations (foreign		
pharmacists)	96	55
m .		
Total	25,306	25,302
Superintendents to bodies cor-		
porate	2,527	2,395
Authorised sellers of poisons	14,405	14,061
Authorised sellers of poisons		
(branch shops)	4,155	4,028

year thirty-six co-operative societies opened pharmacy branches, resulting in a corresponding increase in the number of grocery branches registered with the Society under Section 1 of the 1941 Act. The number of superintendents to bodies corporate rose by 132 (a less marked increase than in 1946).

An American Health Centre. - An American "clinic" which has been in operation in the midwest town Duluth, U.S.A., since 1916 is described in "Medicine Today and Tomorrow," (1946, v.) The clinic offers a specialised service with about 85 per cent, of its patients seen in the office, and the others seen at home or in hospital. Specialists represented on the staff include those in surgery, internal medicine, pædiatrics, obstetrics, E.N.T., neurology, psychiatry, radiology, orthopædics, dermatology and urology, and all staff members are The clinic maintains its own partners. pharmacy, which dispenses prescriptions at prices "approximating to those of regular druggists," and patients are free to patronise the pharmacy or not as they wish. auxiliary staff includes four pharmacists.

#### PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

Resolutions from Branches for consideration at the Branch Representatives' meeting on May 20 came before the March meeting of Council

A MEETING of the Council of the Pharmaceutical Society was held in London on March 2 and 3, the president (Mrs. J. K. Irvine) in the chair. The Council noted with regret the death of Mr. William Browne, a former member of the board of examiners. The annual meeting was arranged for May 19, with appointment of scrutineers at 11 a.m., full meeting at 7.30 p.m., preceded by an informal meeting of the Council at 6.30 p.m.

#### Registration

The Secretary reported that 124 persons had been registered as apprentices or students, making 238 registrations for the year. Fifteen applications for restoration

were agreed to by the Council.

The Council agreed to a recommendation that the Petrie Trust Bursary for 1947, with a copy of the British Pharmaceutical Codex, should be awarded to George Dickie, Aberdeen; that a copy of the British Pharmaceutical Codex should be awarded to H. G. Barron, Aberdeen; and that the Council's thanks should be sent to Mr. J. Spence for acting as examiner, and to the Education Committee of the Aberdeen Pharmaceutical Association for arranging the examination.

Mr. A. A. Meldrum moved the minutes of the Education Committee, which were

agreed.

MR. HESELTINE asked whether an examination concession had been granted to a student who had been injured, and THE SECRETARY replied that the Scottish Board, which had considered the case, had found no reason for departing from the principle that the whole subject should be passed at one time (see C. & D., January 17, p. 88).

#### Motions from Branches

The Organisation Committee, in a report presented by Mr. F. G. Wells (chairman) recommended, and the Council approved, that the following motions received from branches should be included in the agenda for the Branch Representatives' meeting to be held in London on May 20, (Latest date for submission of amendments, April 15).

#### BIRKENHEAD BRANCH

(1) That it is the opinion of this meeting that the British Pharmaceutical Codex should revert to its previous practice of including proprietary names of substances under monographs; note should also be made of proprietary compounds of such, under the chief monograph concerned, e.g. under stilbœstrol, stilbœstrol and calcium tablets would be noted, including reference to Ovendosyn tablets. Monographs should also include broader reference to physical characteristics such as specific gravity.

(2) That it is the opinion of this meeting that the British Pharmaceutical Codex should be divided into two volumes, one for monographs,

etc., and one for formulary.

(3) That it is the opinion of this meeting that the retention fee for premises should be abolished.

#### BRISTOL BRANCH

That it is the opinion of this meeting that much more detailed information should be supplied to the members of the Society on the financial position of the New Building fund from its inception, and that a statement should be made for the consideration of all branches regarding the ultimate disposal of both the Funds and the Building.

#### MANSFIELD BRANCH

That it is the opinion of this meeting that the sending of the "Quarterly Journal of Pharmacy and Pharmacology" to branch secretaries, for branch use, should be resumed.

#### WEST GLAMORGAN BRANCH

That it is the opinion of this meeting that the reasonable expenses incurred by representatives in attending a Branch Representatives' meeting should be paid by the Society.

#### EAST METROPOLITAN BRANCH

(1) That it is the opinion of this meeting that the Pharmaceutical Society should press for the removal of purchase tax from all drugs and galenicals included in the B.P. or B.P.C. and their addenda.

(2) That it is the opinion of this meeting that the present rights of the Pharmaceutical Society to conduct the Qualifying examinations should be

jealously guarded.

(3) That, in the opinion of this meeting, the present policy of not publishing salaries in the "situations vacant" column of the supplement to the "Pharmaceutical Journal" should be discontinued.

(4) That, in the opinion of this meeting, in view of the increased standard of education, the Council of the Pharmaceutical Society should institute postal and local part-time refresher courses for members.

#### GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH

That it is the opinion of this meeting that the present method of election of the Council of the Pharmaceutical Society of Great Britain be reconsidered.

#### LIVERPOOL BRANCH

(1) That it is the opinion of this meeting that

in no circumstances should the powers exercised by the Pharmaceutical Society in the setting-up of the Syllabus, and the appointment of the examining body for examinations in pharmacy, be

delegated to outside bodies.

(2) That it is the opinion of this meeting that the space devoted in the "Pharmaceutical Journal" to the more important matters such as branch news and discussions, members' correspondence, and similar items of general interest, is deplorably inadequate, so that the interests of the overwhelming majority of the Society's members are sacrificed for those of the relatively few who find useful the preponderance of scientific treatises which occupy the "Journal."

#### WESTMORLAND BRANCH

That it is the opinion of this meeting that all Branch Representatives' meetings should be held in a convenient centre of the country like Manchester.

#### DARTFORD BRANCH

That it is the opinion of this meeting that the Council of the Society should instruct the editor of the "Journal" that very much more space be allotted to (a) letters from members, (b) reports of branch meetings, with special emphasis on all discussions and criticisms.

#### Gift for Birdsgrove House

After Mr. E. A. Brocklehurst had presented the report of the Benevolent Fund and War Aid Committee, THE VICE-PRESIDENT informed the Council that the Stoke-on-Trent Pharmaceutical Committee had handed to the North Staffordshire Branch a cheque for £50, to be used in connection with Birdsgrove House. Mr. F. G. Wells asked whether any furniture for Birdsgrove House had been bought with a sum voted for the purpose by the Middlesex Pharmaceutical Committee, and Mr. Brocklehurst replied that they had not yet done so. It was reported that 105 guests had been accommodated at Birdsgrove House during 1947, and that nearly £100 had been received as donations from guests. The subcommittee presented a list of the many other gifts made to the Home, in money and in kind, in 1946 and 1947. The following legacies were noted as having been received for the Benevolent Fund: Frederick Husbands, £100; William A. Roberts, £100; Frederick A. Stooke, £50, and Charles N. Coles, £25. The total received for the War Aid Fund to February 26 was £40,591; expenditure was £18,183.

#### Representatives on College Council

MR. GRANVILLE SHAW, presenting the report of the Establishment Committee, moved a recommendation (which was approved) that Mr. W. S. Howells, Mrs.

J. K. Irvine, Mr. H. N. Linstead and Mr. C. W. Maplethorpe should be appointed representatives of the Council on the College Council, each in a personal capacity, retiring in that order. Mr. Meldrum, who asked whether they could not with advantage go outside members of the Council, was told by THE PRESIDENT that there was provision for six co-opted representatives.

There was then put before the Council a motion from the Leicester and Leicestershire Branch in the following terms:—

"That, whilst agreeing that a new educational policy is necessary, this meeting deplores its method of presentation at a time when there is a scarcity of pharmacists, and, in view of the divided opinion of Council, suggests deferment of approval by the Privy Council until the agreement of members has been obtained by means of a plebiscite."

The Council agreed to leave the matter in the hands of Mr. Granville Shaw, who would be visiting Leicester on March 31.

#### Correspondence

A resolution of the Bath Branch was received, endorsing the principle of the freedom of the Press at the Society's meetings. A letter was received from Mr. W. E. Newbold, Nottingham, expressing concern that a letter from a private member of the Society had been read by the secretary at the Council meeting in February during the discussion of the education policy on the ground that it set a precedent for the presentation of individual opinions to the Council. It was decided to inform Mr. Newbold that the letter had been brought before the Council with other correspondence and that, in view of its value, the Council had decided that it should be read at the time when the examination regulations were being discussed.

#### Appointment of Assistant Secretary

On the recommendation of the Establishment Committee, it was agreed to give Mr. A. J. Plowright the title of assistant secretary of the Society. Mr. Granville Shaw (chairman of the committee) congratulated Mr. Plowright on the excellent service that had culminated in his promotion to the post (see also p. 333).

During consideration of the British Pharmaceutical Conference report Miss Burk thought that limiting to those under thirty years of age the power to qualify for a grant would be unfair to ex-Servicemen, and THE SECRETARY promised to refer the question to the Finance Committee.

# PHYSICO-CHEMICAL METHODS OF PHARMACEUTICAL ANALYSIS

By W. F. Elvidge, Ph.D., B.Sc., F.R.I.C.

#### 3. — The use of coloured compounds in trace-element analysis

THE availability for use of numerous new organic compounds which form intensely coloured metallic complexes has revolutionised trace element analysis. Recent advances in the knowledge of internal metallic complexes has made it possible to postulate in advance that the introduction of certain groups into the molecule will produce certain alterations in colour, solubility and specificity. A valuable property of the complexes is their solubility in organic solvents, which allows the separation of minute traces of metals from large amounts of other substances. Certain reagents are specific for one metal, but many are reactive with many metals, and this is particularly true of dithizone

which reacts with seventeen metals. The problem is complicated because:—

(1) The existence of keto and enol forms of metallic dithizonates; acid favours the formation of the keto form, and alkali, the enol form.

(2) Oxidation to diazone imparts

yellow colour to a chloroform solution, whereas pure dithizone solutions are green. The oxidation product does not react with metals but must be removed from commercial samples as it would interfere with the spectral purity of the colour of the metallic complex being measured. The ease of oxidation by ferric salts, halogens, nitrous acid, etc., leads to difficulties in quantitative work; for example, the yellow colour of the oxidised compound resembles that of mercury and silver dithizonates. The difficulty can usually be surmounted either by having a reducing substance such as hydroxylamine present, or by preliminary extraction. As dithizone is highly reactive with a large number of metals, considerable study has been made of the conditions necessary to ensure specificity in determining traces of any one metal. The two principal methods for this purpose are:-

(a) Alteration of pн.

(b) The addition of a compound, e.g., cyanide or thiocyanate which is capable of forming a complex with the interfering mêtals, thus suppressing their action—a method used in the determination of small quantities of lead

quantities of lead.

If the solution is made slightly alkaline and cyanide is added, the only metals forming colour dithizonates are lead, bismuth, tin and thallium. Those of tin can be eliminated by oxidation to the non-reactive stannic form, bismuth can be separated by extraction by slightly acid solution, and thallium eliminated by the further addition of cyanide, which decomposes the thallium complex.

#### New Colorimetric Methods

The number of colorimetric methods increases rapidly every year and there are now few metals for which appropriate reagents have not been prepared. A few of the more important are mentioned below as examples. The hydrogen of the amino group (>NH) can be replaced by metals and thus rhodamine forms a complex with silver. By introducing suitable chromophoric groupings such as the dimethylaminobenzylidene group the complex becomes deeply coloured and thus suitable for colorimetric work. The procedure gives an intense violet or red colour with copper, silver and mercury.

Coloured silver complex of p. dimethyl aminobenzylidene rhodamine

#### Oximes

Dimethylglyoxime was one earliest organic metal reagents and its reaction with nickel is well known. range of suitable oximes has now been very considerably extended, and benzyldioxime is more specific for cobalt than the above compound and benzoinoxime can be made specific for copper. These last two have the following reactive groupings, with the corresponding metallic complexes:-

#### Reactive Group in Copper Complex

A reactive group (similar to thiol group (>SH) with dithizone) is active in the reagent for copper, sodium diethyldithiocarbamate, as shown in next column:-

 α α' Dipyridyl and α α' phenanthroline, both of which contain the tertiary amino group (>'N-), are examples of the important reagents for ferrous iron. The formulæ are shown below those for the reactive group in copper reagent.

These compounds do not serve as a short cut in qualitative analysis. Few are specific for any one metal and precautions such as the adjustment of pH and the suppression of undesirable reactions must always be observed.

#### PHENYLMERCURIC COMPLEX

WARD, BLENKINSOP & Co., LTD., London, W.1, submitted recently to the Brad-Municipal General Hospital for clinical trial, under the name of Penotrane, a sample of a new water-soluble phenylmercuric complex. Experiments were carried out in the pharmaceutical department by Firth & Rhodes to prepare a suitable cream, and a glyceryl monostearate base was found to be the most useful, since Pentotrane is most effective if the ointment base in which it is dispensed contains at least 40 per cent. of water. The following is the formula for the base:

Light liquid paraffin..... Glyceryl monostearate, self-emusifying (Croda) 20 Water ..... 60

#### A NATIONAL FORMULARY

An address on "A National Formulary" was given recently to the North Metropolitan Branch of the Pharmaceutical Society by MISS C. MOZLEY-STARK, Ph.C. (secretary, National Formulary Committee). The introduction of a National Formulary in 1929, she said, had represented a collective effort of doctors and pharmacists to present various formulas in common use before and since the National Health Insurance Act of Successive editions had followed the same policy until 1941, when the aim of the formulary committee had been to retain only therapeutically valuable drugs, eliminating those which were unessential or in short supply. The compiling committee had consisted in 1929 of a large majority of doctors, with two members from the Ministry of Health, whereas the present committee, appointed by the Minister, had a majority of pharmacists. Requests for economy in prescribing in the various editions of the National War Formulary had related primarily to the availability of many drugs and not to the keeping down of costs as was the case in the National Formulary. Formulas had been made suitable for home and hospital treatment, and greater responsibility than hitherto had rested on the pharmacist members of the compiling committee to present the most modern medicaments in the most suitable form. Several supposed anomalies in nomenclature had occurred through the delay in publication of the new British Pharmacopœia. The committee had been careful not to introduce preparations similar in name to B.P. or B.P.C. preparations, but having slightly different formulas. The introduction of short notes on the prescribing of modern medicaments provided, she thought, a useful function which might be extended in the future. The formulary for use in the new National Health Service was now being compiled by a joint committee of the British Medical Association and the Pharmaceutical Society, with representatives of the Minister of Health.

In the discussion, Mr. J. Spencer suggested that a different-coloured paper should be used for the infants' section; with the inclusion of all children in the new service, great responsibility would be placed upon the pharmacist to ensure, in the absence of any indication on the script, that an infants' formula was required. Miss MOZLEY-STARK replied that she was glad that the compiling committee now appreciated the danger and had made certain proposals about the way in which the children's section should be printed. The new prescription forms would be uniform throughout the service and of a more convenient size. Tinctures had been reintroduced partly for the therapeutic value of the alcohol, and partly because several of the war-time substitutes had been pharmaceutically poor: tinctures gave more presentable mixtures. Several members urged a uniform system of colouring tablets.

#### PROBLEMS OF PHARMACY UNDER N.H.S.

Addressing the North Staffordshire Branch of the Pharmaceutical Society recently, Mr. H. N. Linstead (secretary of the Society), said that the first few years of operation of the National Health Service Act would be affected by shortages of material and man-power, both presenting national rather than pharmaceutical problems. As a result, the Government might be encouraged to make various economies in the distribution of drugs and medicines to the public. Individual pharmacists had peculiarly personal responsibilities for their work and would not want to see post-war shortages forcing pharmacy into a public service mould, with individual practitioners ceasing to exist. The Government might insist upon centralised buying, or might, in some places where there were not enough chemists' shops (e.g. the East End of London) have to start health centres. Such

developments, the result of post-war problems, should not be allowed to determine the whole future of pharmacy under the National Health Service. It might become increasingly necessary for the Society to support individual pharmacists in the battle for professional responsibility, not only in their relations with the State or with local authorities, but possibly with employers. Too often a qualified man, acting as the superintendent of a corporate body, was just a figurehead, with little authority in the conduct of the business; the Society might have to help the superintendent to establish his authority and make it possible for him to give a pharmaceutical service of the highest standard. When the new Service started, present dispensing figures were likely to be doubled. The speaker said that if he himself were in charge of a pharmacy he would make sure

hat he could cope with such an increase, f necessary spending money on enlarging nis dispensary for the purpose. While he would not advise others to spend money on something which was not a certainty, his advice was at least to have plans prepared, so that the dispensary could be enlarged if the need were shown to exist. In case of difficulty about building licences, the Society or the National Pharmaceutical Union would usually be able to help. When doctors' dispensaries closed, many

former doctors' dispensers would become available to pharmacy, and they might prove of considerable help in solving local staff problems. The Society, in introducing educational reforms had, said Mr. Linstead, been looking years ahead. In twenty or thirty years' time a pharmaceutical establishment would need, on account of recent developments in medical science, to have in charge somebody whose training was up to university degree standard.

#### HEADACHES CLASSIFIED

WITH the aims of classifying the mechanisms by which headaches are produced and of suggesting methods of treatment, Butler and Thomas, Chicago (" Journal of the American Medical Association," 47.II. 967), have made a study of headaches and their causes. They point out that headache is a purely subjective symptom and that the cause cannot usually be determined by gross physical examination. Certain structures, however, have been shown to be painsensitive. They include tissues covering the cranium; intracranial structures, such as parts of the dura mater and the dural arteries; and nerves carrying pain to consciousness, such as the sensory branches of the fifth, ninth and tenth cranial nerves and the first, second and third cranial nerves.

Physiologically, headaches are produced principally in one of four ways, or by a combination of them, as follows:—

Distention of arteries inside or outside the

skull;

Traction on vessels within the skull; Œdema and spasm of muscles of the

scalp and neck; and

Irritation of pain-carrying nerves, etc., by inflammation or pressure. Headaches are classified by the authors into the follow-

ing groups:

VASCULAR HEADACHES, which include migraine, histamine headache, and tension headache. These result primarily from the dilatation of blood vessels. They are usually made worse by vasodilators such as nicotinic acid, and relieved by vasoconstrictors such as ergotamine tartrate, dihydroergotamine, and ascorbic acid. Adrenaline and ephedrine contract the extracranial but not the intracranial vessels.

Migraine headaches have usually three stages: Preheadache, throbbing headache, and steady pain. Vasodilators are suggested as of value in stage one. Ergotamine tartrate and dihydroergotamine "will re-

lieve from 70 to 90 per cent." of headaches if given early in the second stage; but there is no successful treatment after ædema of the vessel walls has occurred in stage three. The authors find that 85 per cent, of patients with true migraine are usually cured or greatly benefited by repeated in-

travenous injections of histamine.

Histamine headaches (excluding migraine), resemble those produced by injection of histamine. They are paroxysmal, and the attacks, which occur several times in twenty-four hours, are characterised by unilateral pain, lachrymation, nasal engorgement, and flushing of the involved side. Treatments recommended include antihistamine therapy. Tripelennamine hydrochloride (pyribenzamine hydrochloride) is "exceedingly effective," while di-ethylaminoethyl-q, 10 dihydroanthracene-q-carboxylate (Searle 887, not commercially available) has rendered certain patients free from predictable attacks. Diphenhydramine hydrochloride (Benadryl hydrochloride) is "of little value."

Tension headaches, usually throbbing or pulsating, occipital, and described by the patients as a "pressure in the back of the neck," respond briefly to vasoconstrictors and are benefited by intravenous injection of histamine. Basically, the headaches are psychosomatic in origin and respond only

to psychiatric therapy.

2. PSYCHIC HEADACHES, which are not true headaches, but are "strange, usually terrifying feelings," without organic cause.

OTHER TYPES of headache, which are caused by traction of the meninges (as after spinal puncture with removal of fluid), tumour of the brain, irritation of certain sensory nerves outside the skull (e.g., by inflammation in the nose and sinuses, etc.) and headaches following iniury to areas of the skull. Toxic headaches may follow uræmia, metallic poisoning, etc., but their recognition is usually easy.

#### CORRESPONDENCE

#### **Action Wanted**

SIR,-I have read with considerable interest the letters by Mr. Varley and his critics (C. & D., February 14, p. 222; 21, p. 255; and 28, p. 287) and would like to put forward the views of an ex-Serviceman. We read of suggestions for improving the education of future entrants into pharmacy so that they may caption themselves B.Pharm. We turn the pages and learn that the National Pharmaceutical Union negotiators are unable to give information on the remuneration to be paid for dis-pensing services under the new National Health Service. To revert to basic chemistry the two are incompatible. How can pharmacy expect to attract entrants into the profession when it is not possible to give them any idea of what their future remuneration may be? The overdue payments from the National Health authorities make one realise just what poor businessmen pharmacists are. We sign contracts to carry out dispensing and yet no mention is made in the contract of when payment will be made. Let us have action to show that we have red blood in our arteries and not something that may rather be described as "an isotonic solution of sodium chloride.'

Yours faithfully, CANDIDUS.

#### Dispensing Technicians

SIR,—Holders of the dispenser's certificate of the Society of Apothecaries should be given a fair deal and put on the register of the Pharmaceutical Society. It would not be establishing a precedent, and their qualification is adequate for all dispensing purposes. Holders of the higher pharmaceutical qualifications are more fitted for research work, manufacturing, teaching, etc. It would not be fair, of course, to include persons who have passed no examination in dispensing.

Yours faithfully, HALL CERT.

SIR,—I was most interested in Mr. Ross Mansell's letter (C.  $\mathcal{C}$  D., March 6, p. 319) as I proposed something of the sort many years ago. I enclose a copy of the letter as published in the C.  $\mathcal{C}$  D. The unregistered man is wanted now and wanted badly. He has been slaving away for a totally inadequate salary, doing most of the dispensing in the pharmacy where he is

employed. Now is his chance to demand recognition—but with the title chemist, not "technician."

Yours faithfully, MUMMATT'S NOBBY.

[There is not space to reproduce Mummatit's Nobby's original letter. The substance of it was a plea to open the register to the unregistered indentured, and to raise the retention fee to £5.—Editor.]

SIR,—Some of the leaders of pharmacy appear unduly optimistic about the public's preference for the good old chemist shop. The Minister of Health is asking local authorities to "send him proposals before next July regarding dispensaries already provided which can be adapted and acquired . . . where the facilities are such that they can form part of a health centre." Was "writing on the wall" ever so plain? It will soon be evident that the only employment available for pharmacists will be State employment. Further legislation regarding "patent" medicines, selfmedication, etc., would appear to be the logical sequence. Retail pharmacy, as we know it, will fade out of the picture unless the Pharmaceutical Society is prepared to accept two qualifications.

Yours faithfully, Anstruther, R. S. Whitelaw.

SIR,-I agree with Mr. Ross-Mansell (C. & D., March 6, p. 319) that the time has come for the registration of Apothecaries' Hall assistants, call them dispensing technicians or what you will. So long as the Apothecaries' Hall examination is permitted, its associates should have official recognition. Although not having much academic" knowledge, many of its associates of, say, twenty years' experience, compare favourably in practical knowledge with certain members of the Pharmaceutical Society who have been qualified a similar number of years. After reading the new N.J.I.C. minimum rates for retail pharmacy, one wonders if there are any Apothecaries' Hall assistants in retail now. Apparently they are not worth mentioning. If the qualification is of so little consequence, why not render the examination obsolete and make recommended assistants of ten or more years' standing honorary members of the Pharmaceutical Society, as I believe was done after the first World War .- Yours faithfully,

25 YEARS APOTH. HALL.

#### COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

#### Monday, March 15

County Technical College, Essex Road, Dartford, at 7.15 p.m. (jointly with section of Royal Institute of Chemistry). Dr. Adrien Albert on "Physico-chemical Concepts in Interpreting Drug DARTFORD

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Bridge School, Station Road, Wealdstone, at 7.30 p.m. Dr. G. R. Boyes on "Pharmacological Back-ground of Recent Drugs."

ground of Recent Drugs."

ULSTER CHEMISTS' ASSOCIATION, ASSOCIATES' SECTION, School of Technology, College Square East, Belfast, at 8.30 p.m. Mr. A. R. G. Chamings, B.Pharm., Ph.C., on "Ointments."

SHEFFIELD BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Lecture Theatre, Botany Department, The University, Western Bank, Sheffield, at 7.45 p.m. Mr. A. L. Bacharach, M.A., on "Laboratory Animals."

Tuesday, March 16

BIRMINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Grand Hotel, at 8 p.m. Dr. R. A. M. Case (Royal Naval Physiological Laboratories) on "Some Experiences in Antarctic Whaling."

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, Wellcome Club, Dartford, at 8 p.m. Film show, and discussion on motions for Branch Representatives' meeting.

WOLVERHAMPTON CHEMISTS' ASSOCIATION, Povey's Café, Victoria Street, at 7.30 p.m. Lecture: "The History and Principles of Colour Photography."

WALLASEY PHARMACISTS' ASSOCIATION, Hotel Victoria, New Brighton, at 8 p.m. Annual meeting.

Wednesday, March 17

ABERDARE AND MERITHYR BRANCH, PHARMACEUTICAL SOCIETY, Y.M.C.A., Merthyr, at 7.30 p.m. Film show presented by Eli Lilly & Co., Ltd.
GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Institute of Accountants and Actuaries, 220 St. Vincent Street, Glasgow, at 7.30 p.m. Mrs. J. K. Irvine, M.B.E., (president of the Society) on "Pharmacy as a Public Service."

NCOLN BRANCH, NATIONAL PHARMACEUTICAL UNION, Grand Hotel, at 3 p.m. Address by Mr. S. J. Stearn (a member of the N.P.U. LINCOLN

executive).

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS and SOUTH-EAST LONDON CHEMISTS' ASSOCIATION, 17 Bloomsbury Square, London, W.C.1, at 7.39 p.m. Dr. D. C. Garratt (Camberwell public analyst) on "The Work of a Public Analyst."

LONDON AND SOUTH-EASTERN COUNTIES ROYAL INSTITUTE OF CHEMISTRY, Royal Institu-tion, Albemarle Street, London, W.1, at 2.30 p.m. Mr. A. E. Alexander, B.Sc., Ph.D., on "Emulsions and Emulsification."

BRIGHTON AND HOVE ASSOCIATION OF PHARMACY, Dudley Hotel, Hove, 8 p.m.-midnight. Buffet dance.

Thursday, March 18 KING'S LYNN BRANCH, PHARMACEUTICAL SOCIETY,

Duke's Head Hotel, at 7 p.m. Annual meeting. DEWSBURY BRANCH, PHARMACEUTICAL SOCIETY, Temperance Hall, at 7.30 p.m. Annual meeting.

DUNDEE AND EAST AND CENTRAL SCOTTISH BRANCH,
PHARMACEUTICAL SOCIETY, Café Val d'or, Dundee, at 7.15 p.m. Semi-jubilee dinner.

WESTERN PHARMACISTS' ASSOCIATION. Slater's Restaurant, 18 Kensington High Street, London.

W.8, 7—11 p.m. Dance.

[EIRE] PHARMACEUTICAL STUDENTS' REPRESENTATIVE COUNCIL, College of the Pharmaceutical Society of Ireland, Lower Mount Street, Dublin. Mr. A. R. G. Chamings, B.Pharm., Ph.C., on "Hormones."

CHEMISTS' DENTAL SOCIETY, 15 Taviton Street, Gordon Square, London, W.C.1, at 7 p.m. Meeting.

#### Friday, March 19

Association of Scientific Workers, Caxton Hall, Caxton Street, London, S.W.1, at 7 p.m. Discussion on Whitley Council machinery (pharmacists invited).

LONDON BRANCH, GUILD OF PUBLIC PHARMACISTS, 17 Bloomsbury Square, London, W.C.1, at 7 p.m. Mr. R. Maxwell Savage on "Sterilisation of Dressings."

FEDERATION OF BRITISH INDUSTRIES, Royal Institu-tion, Albemarle Street, London, W.1, at 4 p.m. Meeting in honour of British 1947 Nobel Prize winners (Sir Robert Robinson and Sir Edward Appleton).

MANCHESTER DISTRICT WINDOW DISPLAY COMPETITION (organised by the Crookes Laboratories, Ltd.), March 15-22.

CORK BRANCH, GUILD OF PHARMACY, is holding its annual dinner at the Imperial Hotel, Cork, on Tuesday, April 6. Tickets (10s. 6d. each) from Mr. C. J. O'Byrne, 106 Patrick Street, Cork.

#### FIFTY YEARS AGO

February Exports and Imports

(From the C. & D., March 12, 1898) THERE is no improvement to note in the Board of Trade returns for February. The imports show the heavy decrease of 1,474,290l., due mostly to raw materials. and the exports a decrease of 222,833l., mainly made up of the falling-off in machinery. Included in this amount is a decrease of 43,740l., on chemicals and chemical and medicinal preparations. The imports for the first two months of the year show a decrease of 1,320,667l., and the exports a decrease of 7,77,665l. The February exports comprised the following:-

Alkali, 284,113 cwt. (329,668 cwt.). Medicines, comprising drugs and medicinal preparations 76,535l. (87.312l.).

Copper sulphate, 8,175 tons (8,737 tons). Chemical manufactures and products,

unenumerated, 30,513l. (14,126l.). Quicksilver, 167,953 lb. (133,290 lb.). Cinnamon, 203,100 lb. (89,656 lb.). Pepper 1,420,800 lb. (984,200 lb.). Spices, unenumerated,

(522,000 lb.).

Saltpetre, 11,268 lb. (5,055 lb.).

#### TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex St., W.C.2, March 10 U.S. Drug and Chemical Report

BUSINESS in PHARMACEUTICAL and FINE CHEMICALS continues on a routine scale, with the home trade slow owing to a lack of seasonal demand. Exports to India are held up because of delays in obtaining import permits. Prices are unchanged; an announcement is expected from the Board of Trade during the course of the next few days on the proposals for reducing prices and costs of the F.B.I. and other manufacturers' and commercial organisations. Chemical manufacturers stress the need for pegging the costs of coal, and other types of fuel, power and transport, which have been a major factor in recent increases in the prices of many chemical products. The cut in Phenol supplies to manufacturers early in the year is now taking full effect on the supplies of ASPIRIN and the SALI-CYLATES.

#### Crude Drugs

The markets have experienced the most inactive week for some considerable time; all sections report that business has been negligible. In the home trade only the most pressing requirements have been purchased. It is thought that heavy buying in the autumn of last year, and the mild winter which has followed, are largely responsible; a contributing cause is, without doubt, the uncertainty regarding anticipated Budget changes in purchase tax rates in April. The entrepôt trade has suffered as a result of currency difficulties, which have brought business in commodities originating in hard-currency areas almost to a standstill. Importers of Agar report that considerable difficulty is being experienced in getting material on old contracts shipped from Hongkong; it is stated that the authorities in Japan are withholding permits for the export of agar. In all sections of the markets prices have shown few changes. Tolu Balsam is easier. crop Cascara sagrada is being offered for shipment in the U.S. at what are regarded as reasonable prices; bark on the spot is steady at former rates. Forward quotations for IPECACUANHA are lower. LANOLIN prices are higher. MENTHOL continues easy; recent shipment offers have been at 35s. per lb., c.i.f., for near afloat and May-June at 34s., c.i.f. Rhubarb is inactive; many parcels of common round are showing signs of weevil. Senega is steady on the spot at 11s. 3d. to 11s. 6d. per lb., with shipment offers at 11s., c.i.f. In Essential oils markets, Bourbon

GERANIUM is weaker with prices down to 60s. per lb. Pine needle is easier. EUCALYPTUS OIL to come forward is at slightly lower prices.

New York, March 5

THE principal feature of the FINE CHEM-ICALS markets during the past week has been a reduction in the price of U.S. manufactured Tartaric acid. Few export licences are being granted for refined GLYCERIN at the present time; dealers are asking 45 cents per lb., including the charge for the drum, for export material.

In other sections of the markets, Con-LIVER OIL remains firm despite the recent arrivals of 100 barrels from Norway and more than 250 drums from Iceland. Sales have been reported of domestic Mercury at \$76 per flask compared with a previous inside price of £77. Metal for late delivery is being offered at lower prices. Spanish-Italian metal is still maintained at \$60.

MENTHOL prices are unchanged. duction in the current year in Brazil is estimated at 250 tons, with a carryover of 150 tons from the previous year. U.S. stocks are estimated to be about 75 tons.

The Drug, Spice and Wax markets have

been very quiet during the past week, although unconfirmed reports that a Bill had been signed in Brazil financing the CARNAUBA WAX crop resulted in increased prices in New York; No. 3 N.C. wax was quoted at 80 cents per lb. and chalky at 78 cents, both two cents per lb. dearer. Botanical drug imports into the U.S. fell in November 1947 to only 736,800 lb. from 1,800,000 lb. in the previous monthmainly reflecting the smaller shipments of HENBANE, CINCHONA BARK, PSYLLIUM, etc.
The only feature of the Essential Oils

market was a reversal in the recent downward trend of Ceylon CITRONELLA OIL. The value was increased seven cents to 92 cents per lb.

#### Pharmaceutical Chemicals

Allobarbitone.—Current price for 10kilo lots is 90s, per kilo; smaller quantities are quoted at 99s. per kilo.

AMIDOPYRINE. - Quotations are firmly held at from 53s. to 60s. per lb.

AMMONIUM CHLORIDE, B.P. - Makers quote 1-cwt. lots at 91d. per lb.

AMPHETAMINE.—Prices for the Base and SULPHATE are from 150s. to 160s. per lb. as to quantity.

Aspirin.—Makers' prices per lb. for powder (containers in brackets) are unchanged: 1-cwt. lots (28-lb.), 3s. 5½d.; resellers' schedule rates for quantities of 48. 3\frac{1}{2}d. (2-lb.), 4s. 3d. (4-lb.), 4s. 2d. (7-lb.), 4s. 1\frac{1}{2}d. (14-lb.), 4s. 0\frac{1}{2}d. (28-lb.). Net one month.

BENZOIG ACID.—Makers' quotations are it from 2s. 7d. to 3s. per lb. for B.P., with echnical grade at 2s. 6d. to 2s. 8d. SODIUM ENZOATE is quoted from 2s. 6d. to 2s. 8d.

BENZONAPTHOL .- B.P.C. quality is offered

at 14s. 6d. per lb.

BENZYL BENZOATE. — B.P. quality is noted from 4s, 6d. to 5s. per lb., according quantity; perfumers' quality, 5s. to

s. 6d. per lb.

BISMUTH SALTS.—Makers' prices per lb. or 1-cwt. lots are as follows: Carbonate, 4s. 10d.; Citrate, 12s. 6d.; Subnitrate, Alicylate, 12s. 9d.; Subgallate, 15s. 9d. Bromides.—Current resellers' rates per b. for Potassium, in quantities of 28 lb. to b. for Potassium, in quantities of 28 fb. to cwt. (containers in brackets), are as follows: 3s. 5½d. (1-lb.), 3s. 4½d. (2-lb.), 3s. 4d. (4-lb.), 3s. 3d. (7-lb.), 3s. 2½d. (14-lb.), 3s. 1½d. (28-lb.). In bulk makers quote 1 cwt. at 2s. 7d. per lb. and 5 cwt. at 2s. 6d. Powder is 2d. per lb. extra. Sodium is 1½d. per lb. less than above rates; Ammonium is 2d. per lb. more than above rates Terms are net; carriage paid on 1-cwt. lots in U.K.

CAFFEINE. - Supplies are improving. Makers' prices per lb. are as follows: ALKALOID, anhydrous, from 41s. 6d. to 45s. 6d and B.P., from 39s. 6d. to 43s. 6d., tecording to quantity; CITRATE, from 24s. 6d. to 28s. 6d.; SODIUM BENZOATE, from 24s. to 28s.; SODIUM SALICYLATE, from 24s. 9d. to 28s. 9d.; SODIUM IODIDE, from 29s. to 32s.

CITRIC ACID, B.P.-Makers quote 1s. 51d. per lb., discount 5 per cent., for 1-cwt. lots, delivered, in the United Kingdom.

DIGITALIN.—Crystals (French Codex) are quoted at 145s. to 150s. per gm.

GLYCEROPHOSPHATES. — Makers' GLYCEROPHOSPHATES. — Makers' list prices per lb. are as follows: CALCIUM SOLUBLE, 10s, 6d.; Iron scale, 11s. 9d.; ACID, 20 per cent. (B.P.C.), 8s. 3d.; MAGNESIUM (INSOLUBLE), 10s.; MAGNESIUM (SOLUBLE), 19s. 3d.; MANGANESE, 24s. 3d. POTASSIUM, 50 per cent., 5s. 11d.; 75 per cent., 7s. 9d.; Sodium, 10s. 9d.; 50 per cent., 4s. 7d.; 75 per cent., 5s. 8d. Quantities of 7 lb., 6d. per lb. lower than above rates; other quantities in proportion.

GUAIACOLS.—Liquid is quoted at 14s. 6d. to 16s. per lb.; crystal and carbonate, 14s. to 15s. per lb., according to quantity.

Hæmoglobin. — Quotations from 2s. 6d. to 3s. 6d. per lb., as to quantity.

HEXAMINE.—B.P. is quoted at from 1s. 8d. to 2s. per lb., as to quantity.

HYDROCYANIC ACID.—B.P.C. (Scheele's) is quoted at 1s. 5½d. per lb. and B.P. at 1s.  $1\frac{1}{2}$ d. per lb.

PANCREATIN.—Price of B.P. material is from 13s. 6d. to 16s. 6d., according to

quantity.

PEPSIN.—Quotations for B.P. standard are from 29s, 6d. per lb.; 1-3,000 is priced at 35s., and 1-10,000 at 115s. per lb.

PHOSPHATES.—Makers' rates per lb. for Sódium are as follows: B.P. granular, 1 cwt., 7½d., 28 lb., 9d.; feathery, 1 cwt., 8½d., 28 lb., 10d.; exsiccated, B.P.C., 1 cwt., 2s. 2d., 28 lb., 2s. 6d.; Acid, B.P., crystals, 1 cwt., 1s. 9d., 28 lb., 2s. Potassium, granular, 4s. 2d.; powder, 4s. 5d. per lb. Ammonium, B.P.C., 1 cwt., 2s. 6d.; 28 lb., 2s. 10d. per lb. 2s. 10d. per lb.

Pilocarpine.—Makers' rates per oz., are as follows: Alkaloid.—1 oz., 44s. 6d.; 4 oz., 44s.; 25 oz., 43s. 6d. Hydro-chloride.—1 oz., 40s.; 4 oz., 39s. 6d.; 25 oz., 39s. Nitrate.—1 oz., 37s. 6d.; 4 oz., 37s.; 25 oz., 36s. 6d.

PIPERAZINE.—Current prices are from 4s. 6d. per oz., according to quantity.

POTASSIUM ACETATE, B.P.-Fine granular is 2s. 12d. per lb. in 1-cwt. lots.

Procaine hydrochloride. — Current quotations are from 42s. 6d. to 45s. per lb.

Pyrogallol.—Current rates are as follows: 1 cwt., 21s.; 56 lb., 21s. 6d.; 28 lb. 22s. 6d. per lb. Resublimed, 4s. per lb. above these rates. Prices are net.

RESORCIN.—In short supply. Current prices are at from 10s. 6d. to 12s. 6d. per lb., according to quantity.

ROCHELLE SALT.—Current rates per cwt. are as follows: 1 cwt., 162s. 6d.; 5 cwt., 160s. SEIDLITZ POWDER, ordinary strength is quoted at 126s. 3d.; extra strong, 136s.; and double strength, 141s. 9d. per cwt.

SALICYLIC ACID.—Current resellers' rates Salicyllo Acid.—Current reseilers rates per lb. (containers in brackets) in the home market are as follows: 28 lb. and under 1 cwt., 2s. 9½d. (1-lb.); 2s. 8½d. (2-lb.); 2s. 8d. (4-lb.); 2s. 7d. (7-lb.); 2s. 6½d. (14-lb.); 2s. 5½d. (28-lb.). Net one month. Sodium salicylate. — Makers' quotations of the salicylate.

tion for 1-cwt. is 2s. 6d. per lb.; resellers' rates per lb. (containers in brackets) in the rates per 1b. (containers in brackets) in the home market are as follows: 28 lb. and under 1 cwt., 3s, 3d, (1-lb.); 3s, 2d, (2-lb.); 3s, 1½d, (4-lb.); 3s, 0½d, (7-lb.); 3s, (14-lb.); 2s, 11d, (28-lb.). Net one month. TARTARIC ACID, B.P.—British-manufactured acid is quoted at 230s, per cwt., delivered.

livered.

VALERIANATES.—Current quotations for quantities of 1 cwt. and over: IRON, SODIUM and ZINC, 42s. 6d. per lb.; AMYLISOVALERATE, 37s. 6d.; ETHYL ISOVALERATE, 43s. 9d.; Methyl isovalerate, 44s. 3d. MENTHYL is quoted at 95s. 6d. per lb.

Alexthyl is quoted at 90s, 6d. per 1b.

Zinc salts.—Prices per lb. are as follows: Acetate, B.P.C., 3s. 9d. to 4s. 1d.;
Carbonate, B.P.C., 1s. 11d. to 2s. 5d.;
Childride, B.P. (white), fused, 3s. 4d. to 3s. 8d., stick, 4s. 4d. to 4s. 8d.; Iodide, B.P.C., 18s. 9d.; Oxide, B.P., 11d. to 1s. 2½d., prepared from carbonate, 5s. 6d. to 6s.; Permanganate, B.P.C., 9s.; Sulphate, B.P., 44s. 6d. per cwt.; powdered, 51s. 6d. to 65s. 6d. per cwt.; exsiccated, 10d. to 1s. 1½d. per lb. The above price ranges are according to quantity. ranges are according to quantity.

#### Crude Drugs

ACONITE.-Indian root on the spot is quoted at 300s. per cwt.

AGAR.—Kobé No. 1 type strip is quoted

at 18s. 6d. per lb. on the spot.

Aloes.—Cape is offered at 155s., spot: shipment offers are at 140s, to 142s., c.i.f. Curação in boxes is offered at 210s. to 230s., spot: forward, 200s. per cwt., c.i.f. Socotrine, 156s, to 190s, is quoted.

Anise (Star).—Spot quoted from 120s. to 130s. per cwt.; shipment, 110s., c.i.f.

Annatto seed .- Steady. A parcel of Jamaica is quoted at 11d. per lb., c.i.f.

Asafetida.—Persian block is offering at £22 10s. per cwt., spot, with lower quality material (Indian) down to £15.

Balsams.—Canada, in short supply. is firm at 18s. 6d. per lb., spot. Pará *Copaiba*, spot, 4s. to 4s. 6d. per lb. for soluble. *Peru*, San Salvador, is offered at 6s. to 6s. 3d. per lb., duty paid. Tolu on spot is easier at 18s. 6d. per lb.

Belladonna Herb.—A parcel with a test of 0.458 per cent. alkaloids is offered at

4s. 3d. per lb.

Benzoin.—Sumatra almondy block on the spot is offering from £15 to £17 per cwt., as to quality, with almonds at £80 per cwt.; Siam almonds, at 30s, per lb.

Cantharides.—Chinese, spot, offered at 10s., duty paid; 6s. 3d. per lb., c.i.f.

Capsicums.—Steady. East African on the spot, 90s. to 140s. per cwt.

CARDAMOMS. — Steady. Mangalore: Half-bleached A's, 8s. 6d. per lb., spot; B's, 8s., seeds, 6s. 9d. Aleppy seeds are dearer with 8s, 6d. per lb. quoted for No. 1; Aleppy greens, 6s. 3d.; extra bold, 7s.

Cascara sagrada,—Quiet. 1947 peel is quoted at 265s, to 270s, per cwt., according to holder; 1946 is at 270s, to 275s. New-crop, July-August shipment, is offering in the U.S. at 202s, per cwt., c.i.f.

Cascarilla.—Quills are steady at 1s. 6d. to 1s. 7d. per lb., spot; siftings are quoted

at 1s. 5d. to 1s. 6d.

CINCHONA BARK.—Tanganyika chips on the spot are offered at 4s, 6d, to 4s, 9d, per lb., according to quality.

Cochineal.—Silver greys, quoted at

4s. 3d. per lb., spot; blacks, 4s. 6d.

Cod-liver oil.—British-produced oil of B.P. quality is quoted from 12s, to 13s, per gall., delivered in the United Kingdom.

Colchicum. — Corms are offered at 7s. 6d. to 8s. 6d. per lb., spot; seeds are available at 30s., spot.

DERRIS ROOT.—Controlled price of the root and "other rotenone materials" is 2s. 4d. per lb., ex warehouse.

Dragons blood.—Singapore reboiled No. 1 is at £70 per cwt., spot; second-grade material is available at £50.

Elemi.—Parcels of Manila No. 1 are offered at 2s. 3d. per lb., spot.

Ergor.—Portuguese is offered at 4s. 3d. to 4s.  $4\frac{1}{2}$ d. per lb., spot; for shipment, 3s. 10d., c.i.f.

EUPHORBIUM.—Spot quotations are maintained at from 85s. to 90s. per cwt.

Frangula Bark .- Quills are offering on the spot at 2s. 2d. per lb.

Gamboge.—Siam pipe on the spot is offered at £55 per cwt., duty paid.

GENTIAN .- French natural on the spot is offering at 75s. per cwt.

GUM ACACIA.—Quiet. Kordofan cleaned sorts, 67s. 6d. per cwt., spot London: March-April shipment, 61s. 6d., c.i.f. Bleached No. 1, quoted at 140s., ex store. Talha cleaned, 40s. per cwt., ex warehouse: shipment, 37s., c.i.f.

GUM KINO .- Indian on spot is offered at 9s. per lb.

GUM MASTIC.—Quiet. No. 1 is offered at 14s. per lb., duty paid. No. 2, 14s. 3d.

Henbane.—B.P. is quoted at 4s. 6d. per lb., spot. Egyptian (H. muticus) is offered at 105s. per cwt., spot; 80s., c.i.f.

Henna.—Egyptian is offered at 125s, to 145s. per cwt., on the spot; Indian, 100s. Horehound,—Best white French herb is offering at 89s, per cwt.

Hydrastis.—Quiet. Spot, 60s. per lb. IPECACUANHA.—Quiet. Nicaraguan quoted at 28s. 6d. per lb., spot; April-May shipment, 24s., c.i.f.; Colombian root, 26s., shipment, 24s., c.i.f.; Colo spot, and 22s. per lb., c.i.f.

Irish Moss. — French finest-quality bleached, quoted at 120s per cwt., spot; No. 1, 105s.; No. 2, 95s. per cwt.

Jaborandi Leaves. — F.a.q. on spot quoted at 9d. per lb.; firmer at origin.

Jalap.—Vera Cruz, spot, offered at prices from 3s. 5d. to 4s. per lb., as to test (15 to 17 per cent. resin).

JUNIPER.—Italian berries, quoted at from 55s. to 60s. per cwt., duty paid.

Karaya.—No. 1 gum quoted at 220s., and No. 2 at 180s. per cwt., spot.

Kola Nuts.—Steady. African quarters are quoted at 5d. per lb.; African halves. 3d. to 5d., according to quality; Jamaican washed halves, 5½d, per lb.

LANOLIN.—Makers' prices are £125 per ton for B.P. ANHYDROUS and £110 for B.P.

Hydrous, delivered U.K.

-Anatolian natural root is LIQUORICE.easier at 52s. 6d. per cwt., spot. Syrian natural is dearer at 49s. 6d. per cwt., on the spot. Italian block, 375s, per cwt., spot. Italian stick (1-oz. and 2-oz.) is quoted from £450 to £535 per ton, as to quantity and grade. Turkish block is offered at around 240s, per cwt.

Lycopodium.—Russian sifted is offered at 12s. 6d. per lb., spot; Indian, 12s.

MENTHOL.—Brazilian on the spot is ffered at 42s. 6d. per lb., duty paid; in ond, 41s. 6d.

ORRIS.—Florentine, spot, 185s. to 195s. er cwt., according to quality. Verona, for hipment, 105s., c.i.f.

RHUBARE. — Steady. Chinese roughound on the spot is quoted from 4s. 6d. to s. 6d. per lb., according to fracture; a vo. 3 root is available at 3s. 6d. Shensi lats or rounds on the spot are offered at 0s. to 12s. 6d. per lb., according to qual-

ty; attracting little interest.

SEEDS.—More inquiry for spot parcels. NISE.—Cyprus, 1s. 8½d. per lb.; Turkish eported sold at 1s. 8d. per lb., duty paid, pot London or Liverpool. CARAWAY.—Dutch quoted at 11½d. per lb., duty paid, pot London; in Liverpool, offered at 105s. per cwt., duty paid. CELERY.—Indian is s. 3½d. per lb., spot London. CORIANDER.—Argentine on spot is quoted at 45s. per wt., duty paid, and split seed at 40s. per wt., duty paid in London or Liverpool. The position of Morocco is unchanged at 55s. per cwt., c.i.f. London, for old-crop. Jumin.—Indian is quoted at 217s. 6d. per wt., spot Liverpool; Cyprus is 220s. per wt., spot Liverpool; Cyprus is 220s. per wt., spot London. For shipment, Cyprus s quoted at 202s. 6d. per cwt., c.i.f. London, offered t 47s. 6d. per cwt.; a small quantity is a vailable in Liverpool at 46s. per cwt. Ennel.—Indian in London is 72s. 6d. per cwt., and 71s. 6d. per cwt., ex store Liverpool. Several parcels of Argentine are a ffered at 70s. per cwt., spot London; no usiness has been reported at this figure. Fenugreek.—Indian is offered at 47s. 6d. per cwt., spot London; no usiness has been reported at this figure. Fenugreek.—Indian is offered at 47s. 6d. per cwt., spot London; no usiness has been reported at this figure. Fenugreek.—Indian is offered at 47s. 6d. per cwt., spot London, and 45s. per cwt., spot Liverpool.

SENEGA.—Quiet. Spot is offered at prices rom 11s. 3d. to 11s. 6d. per lb.; shipment,

11s., c.i.f.

Shellac.—Spot quotations, ex warenouse, are as follows: F.O.T.N., pure, 345s.; Standard No. 1, 350s.; fine orange, 360s. to 400s. per cwt.

Turmeric.—Madras finger is nominal at 120s. per cwt., spot; April-May shipment,

easier at 95s., c.i.f.

Waxes.—Dar-es-Salaam Bees', on spot, is quoted at 385s. per cwt.; Lindi, 375s., nominal. Benguela is quoted at 370s., duty paid; shipment, 315s., c.i.f. Candelilla.—Steady at 400s. per cwt., spot, and 390s. for April delivery, ex store. Carnauba.—Fatty grey on spot, 520s. per cwt.; shipment, 475s., c.i.f. Prime yellow, spot, 850s. per cwt.; shipment, 800s., c.i.f. Montan.—Steady. Reibeck is offering at 350s. per cwt., spot; Czechoslovak crude, 300s. Ouricuri.—6 per cent., on spot, 375s. per cwt. 1 per cent., spot, 430s.; shipment, 430s., c.i.f. 2 per cent., spot, 430s.; shipment, 430s., c.i.f. 5 per cent., 400s., c.i.f. Spermaceti.—4s. 2d. per lb. spot.

#### **Essential and Expressed Oils**

Almond.—Spanish or Moroccan (B.P.) sweet oil is offered at 9s, 6d, to 11s, per lb. Bitter essential oil is quoted from 30s. to 55s. per lb., according to quality and seller.

CAMPHOR.—White oil of good quality is offered at 3s. to 3s. 6d. per lb., duty paid.

CITRONELLA.—Ceylon on the spot is offered from 4s. 3d. per lb., according to quantity; shipment, 3s. 7d., c.i.f.; Java, from 11s. to 15s., spot.

CORIANDER.—Small supplies of Englishdistilled oil are available at 250s, per lb.

DILL.—English-distilled oil is quoted at 62s, 6d, per lb.

EUCALYPTUS.—70-75 per cent. (B.P.) is offering at 5s. per lb. for drums, and up to 6s. 6d. for smaller quantities; shipment, 3s. 9d., c.i.f.

Geranium.—Prices have been shaded and Bourbon is now offered at 60s. to 70s. per lb., as to grade and seller.

Lemongrass.—Spot supplies are offered

at 7s. 6d. to 9s. per lb., according to holder and quantity; forward, 6s. 6d., c.i.f.

LIME.—West Indian is maintained at from 26s, to 30s, per lb., according to holder and quantity.

Nutmeg.—English-distilled oil is offered at from 39s. to 45s. per lb.

OLIVE.—The Olive Oil Importers' Association price for edible, 1 per cent., to wholesalers is 51s. per gall. of 9 lb., in drums, ex store. Wholesalers' prices to retailers are as follows: In gall. loan cans, 58s. 9d. per gall.; in ½ gall., 59s. 6d.; in quart loan containers, 60s. 4d.; and in pint containers, 61s. 4d. per gall., all delivered.

PEPPER.—English-distilled is firm at 160s. per lb.

SESAME.—Refined edible oil is quoted at from 62s. 6d. to 67s. 6d. per gall. of 9 lb.

TURPENTINE.—Rectified (B.P.) is quoted at 2s. 6d. per lb. in carboys.

VETIVERT.—Java is quoted at 135s. per lb., on the spot; Bourbon, 125s. to 145s.

YLANG YLANG.—Bourbon is quoted at 65s. to 100s. per lb., as to grade and seller.

The secretaries of the Essential Oils Control draw the attention of approved representatives and datum period distributors to the requirement that stocks in original containers must be stored at a public wharf accustomed to handling essential oils, unless otherwise agreed upon in writing with Allocations Control. Delayed allocation stocks consisting of broken bulk may be stored in the holder's private warehouse, but in the event of re-allocation to another datum period distributor the holder shall, if so requested, deliver to a public wharf selected by the distributor, the charge for delivery being debited to the Control.

#### TRADE MARKS

(From "The Trade Marks Journal," February 18) Device of interlocking chain links; for essential oils, cosmetic essences, and flavourings consisting wholly or pincipally of essential oils (3). By Cumming, Parsons, Ltd., St. Mary Street, Queen's Road, Manchester, 9. 644,747 (Asso-

"RAVELLE"; for toilet preparations (not medicated), cosmetics, perfumes, soap, essential oils, hair lotions and dentrifrices (3). By Blynds Hill Laboratories, New Bury, Farnworth, Lancs.

B647,958.

"Hydragum"; for cosmetic preparations (not being toilet preparations) (3); for gums prepared for use in phamacy (5). By Brown & Forth, Ltd., 118 Chorlton Road, Manchester, 15. 651,429-30 (Associated).

"GAY" and devices (word "Gay" disclaimed); for non-medicated toilet preparations, cosmetics and soaps (3). By Cupal, Ltd., Phœnix Mill, King Street Bridge, Blackburn, Lancs. 652,936.

"THEON"; for manicure preparations (3). By The Theon Co., 153 Fifth Avenue, New York, U.S.A. 654,426.
"PRELL"; for shampoos for the hair (3). By

Thomas Hedley & Co., Ltd., Collingwood Street, Newcastle-on-Tyne. 655,410.

"Wise Wife"; for soap and soap powder (3).
By C. Wilkinson (Leeds), Ltd., Wide Lane,

Morley, nr. Leeds. 655,564.

" JEALOUSY" in distinctive lettering; for toilet waters and other non-medicated toilet preparations, cosmetics, and perfumes (3). By Manon Freres, Ltd., 845 Honeypot Lane, Stanmore, Middlesex. 655,593.

"TRESKARA"; for perfumes, non-medicated toilet preparations, cosmetics, sachets for hair waving, soaps and essential oils (3). By Vine's Biocrin, Ltd., 222 Harrow Road, London, W.2. 655,653.

"MARYBOB"; for non-medicated toilet preparations for the hair and skin (3). By B. G. Heavers & Co. (Bristol), Ltd., 6 St. James'

Square, Bristol, 2. 655,681.

"RATIN"; for preparations for destroying vermin
(5). By A/S Bakteriologisk Laboratorium Ratin,
9 Virginiavej, Frederiksberg - by - Copenhagen,

Denmark. 638,832 (Associated).

"PLAX"; for laxatives for sale in the United Kingdom (5). By Harry Ridehalgh, 712 Wim-

Kingdom (5). By Harry Ridehalgh, 712 Wimborne Road, Bournemouth. 650,049.

"DALESMAN"; for herbs for pharmaceutical purposes (5). By W. C. & H. Hebden, Winding Road, Halifax, Yorks. 652,499.

"Betagen"; for liniments, ointments, and veterinary preparations (5). By C. J. Hewlett & Son, Ltd., 35 Charlotte Road, London, E.C.2.

652,833.

"PRODIUM"; for pharmaceutical preparations for human and veterinary use (5). By William Henry Fisher, 7 Sansome Place, Worcester. 653,460.

"PANDA"; for fly papers (5). By Leda Chemicals, Ltd., Alpha Works, 94 Archway Road, London,

N.19. 654,397.

" NOVROLIT NOVROLIT"; for insecticides and fungicides (5). By Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2. 655,820.

"VITATROP"; for pharmaceutical preparations of glandular extracts and vitamins (5). By British Glandular Products, Ltd., 37 Chesham Place, London, S.W.1. 654,378.

"Hoi"; for preparations and substances for the destruction of pests and vermin (5). By Hampstead Insecticides, 67 Fellowes Road, London,

N.W.3. 655,187.

"NIMALAC"; for medicated preparations for the skin (5). By Halsteads (Chemists), Ltd., 81 Castle Street, Hinckley, Leics. 656,141.

" ACRIBES"; for thermometers (9). By S. Brannan & Sons, Ltd., 46 London Road, London,

S.E.23. 655,881.

"ARGUS" and triangular design; for photographic apparatus and appliances, etc. (9). By Argus apparatus (10). By Solomo Schaffer, 9 Charlton Drive, London, N.2. 654,355-56.

(From "The Trade Marks Journal," February 25)

"LENORE"; for non-medicated toilet preparations, cosmetics and perfumes (3). By Fitzgerald & Co., 380 Jersey Road, Isleworth, Middlesex. 651,547.

"CREMINE": for theatrical cosmetics, non-medicated toilet preparations (non-saponaceous), and perfumes (3). By Regent Chemists, Ltd.,

Allen House, 70 Vauxhall Bridge Road, London, S.W.1. B651,755.
"BRY" in distinctive lettering; for non-medicated toilet preparations for the skin and hair, cosmetics, perfumes, etc., but not including toilet polishing preparations and nail varnish (3). By County Perfumery Co., Ltd., Honeypot Lane, Stanmore, Middlesex. 652,899 (Associated).

"Verboquer"; for non-medicated toilet prepara-tions (3). By I. Rabin, 190 High Street, Lon-

don, E.C.2. 653,517. "HARDY AMIES" in distinctive lettering; for nonmedicated toilet preparations, cosmetics, per-fumes and soaps (3). By Hardy Amies, 14 Savile Row, London, W.I. 653,815. "CHEMICO" in distinctive lettering; for non-

medicated toilet preparations, cosmetics, perfumes, polishing and washing preparations (3). By County Chemical Co., Ltd., 553 Stratford Road, Shirley, Birmingham. 654,293 (Associated).

"DANA" in distinctive lettering and device of a lipstick holder (device of lipstick holder disclaimed); for non-medicated toilet preparations, cosmetics and perfumes (3). By Financiera de Perfumeria Sociedad Anonima, Avenida A20,

Panama. 654,441.
"ESPADIN" and device of sword; for cosmetics (other than toilet preparations), hair lotions, dentifrices and toothpastes (3). By Reckitt & Colman, Ltd., Dansom Lane, Hull, Yorks.

654,848 (Associated).

"ANAVENOL"; for pharmaceutical substances for human and veterinary use, and sanitary sub-stances (5). By Imperial Chemical (Pharma-ceuticals), Ltd., Wexham Road, Slough, Bucks. 649,083.

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vertised in the medical press. A showcard is available to pharmacists on request.

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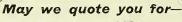


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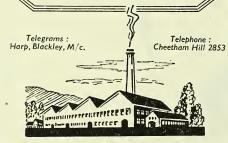
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THE STORY OF DDT -- 2 -

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Frequent laboratory tests confirmed that DDT/Geigy was extraordinarily toxic to insects, both as a stomach poison and by contact. It is related that the latter property was discovered when a Geigy scientist dusted with DDT a plant infested with Colorado Beetle. The larvæ fell almost instantly to the ground, and the following morning were found by laboratory tests to be dead. He argued that they had not had time to eat the DDT preparation, and, therefore, must have succumbed to contact toxicity alone. Thus another remarkable feature of DDT was brought to light.



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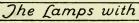


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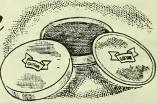
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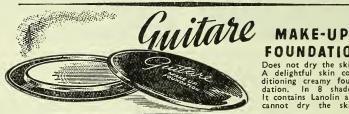
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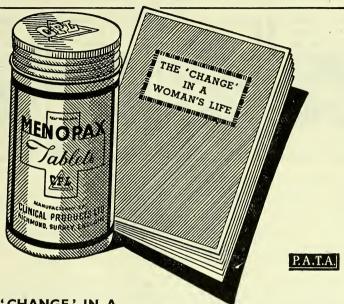
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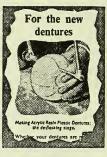


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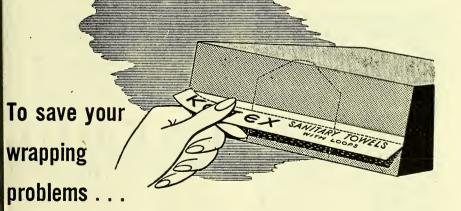
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Now 1/81d. per Box (C.P.R.C. Approved)

Cellucotton Products Ltd., 33/34 Aylmer Parade,



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★ 1 dram, 2 dram and 4 dram PERFUME BOTTLES ★ 3 dram NAIL VARNISH BOTTLES ★ 1-oz. and 2-oz. FANCY BOTTLES (All the above with Plastic Screw Caps) \* 1-oz. and 2-oz. SQUAT JARS with Enamelled Metal Screw Caps \* 42 m.m. ALUMINIUM CONTAINERS, Blue and Pink Enamelled; Screw on Lids 

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Insect Repellent

Cream (Active agent Dimethyl Phthalate)

Retail: 2/- per jar (incl. P. Tax). 1/-, plus 4d. P. Tax. Minimum quantities: 3-doz. lots for direct orders. Prompt delivery, direct,

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he bed-bug is very susceptible to the action of the gamma isomer f benzene hexachloride which is the active principle in 'Gammexane' ormulations.

Sammexane' Spray L.044 has been shown to eradicate this disgusting est and to prevent reinfestation for many months under the most evere conditions.

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destroy the destroyer

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Lemon Flavoured and Sweetened

# SEIDLITZ POWDERS

4½d. Ordinary Strength — 6d. Extra Stron 7d. Double Strength

32/- 40/- 48/- per Gross
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Order through your usual wholesaler or direct.

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**TABLETS** 

FOR PEACEFUL SLEEP AND EXTRA PROFIT!

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# BABY MEANS BUSINESS

Where there are babies there will be a demand for soothers—a demand that continues all the year round. That's the sort of business you want.

Make sure of repeat orders by selling Grovewell soothers.

We'll tell you why:-

- 1 The teething ring is pliable plastic, kind to gums
- 7 The disc is plastic, too, and gaily coloured.
- 3 The teat, made of transparent latex, is in normal of cherry shape and can be sterilized whenever necessary.
- 4 They are hygienically packed in cellophane envelopes, fixed on a showcard which will add distinction to your counter. Also offered in attractive 3-dozen display box.

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Wholesale only supplied

Steady sales and good supplies

Extensive advertising of D.D.D. Balm — in the national provincial and periodical press and the women's journals — is a constant reminder to a receptive public — the mothers of babies and of young children. That is why the sales of D.D.D. Balm are so steady. Supplies are now equal to demand — your wholesaler can deliver from stock.

D.D.D. Balm is specially prepared for sensitive skins. It does not sting, does not burn. It is white, non-greasy and does not stain. D.D.D. Balm quickly clears napkin rash, teething rash, chapping and chafing. D.D.D. Balm is safe and speedy for babies skin troubles.



TRADE TERMS: 16/- per dozen. Purchase Tax 5/4d. per dozen. Inclusive retail price 2/2½ per jar.

# .D.D. BALM

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VALUE
ON THE MARKET!

ITS QUICK SALES MEAN QUICK PROFITS!





IT'S WELL ADVERTISED
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MATERIAL WILL BE
AVAILABLE SOON!

-it's-



# holly-Pax

# MODERN INSERTION TYPE SANITARY PROTECTION

★ Holly-pax appeals to women because of its excellent value—quite apart from its great advantages and amazing compactness. It's equally attractive to stockists because it sells quickly, meaning quick profits.

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### **FASSETT & JOHNSON LTD.**

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RETAIL PRICE **1/3d.** per packet
LIST RATE **8/-** per dozen
Purchase Tax 2/8d. per dozen.

All Orders taken in Strict Rotation as Supplies are Limited.

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# WINNING WIDE APPROVAL!

The popularity of Velena (the new modern soluble towel) is becoming more and more apparent as each day scores of young women discover how successful it is—because it's designed to give the very maximum efficiency and comfort. Be sure to stock and display Velena. Obtainable through all wholesalers.

RETAIL AT 1/9 A PACKET 15/9 PER DOZ. PACKETS TO RETAIL TRADE

# VELENA

THE MODERN SOLUBLE TOWEL WITH LOOPS

Manufactured by

Velvet Crepe Paper Co. Ltd., Alperton, Midd esex

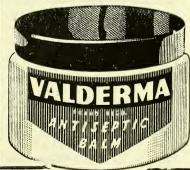


Countless people write in to say, "I saw your advertisement." That's why so many people are regularly asking their local stockist for this quick-selling line. They have seen the compelling Valderma advertisements. Make sure you cash-in, too, on this profit-making turnover by always keeping in hand a stock of Valderma, the double anti-septic balm with the double sales appeal.

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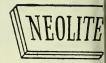
STANDARD SIZE 2/21 a jar including tax. Trade price 15/- per doz. Purchase Tax 5/- per doz.

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NEOLITE produc combine luxury finish with elegance style. Fashioned in rhapsody of crys and pastel colourin

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National Advertising is creating a demand for

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AMHERST 5640

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We would like to thank our trade friends for their understanding during this difficult time, and we aim to continue our service both as to quality of product and competitive price.

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### These are the products of St. Andrew Mills

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ANDREX	The softest Toilet Tissue known made entirely from purest pulp.	$1/2\frac{1}{2}$	per roll
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KITCHEN TOWELS		_, •	**

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# FOR THE PREVENTION AND TREATMENT OF COLDS

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Special Window Displays featuring Serocalcin are being arranged during March, and Chemists are asked to make sure that they have adequate stocks to meet the additional demand that these displays will create.

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Serocalcin is packed in 20s and 60s.

HARWOODS LABORATORIES LTD., WATFORD, HERTS.

# CHEMIST AND DRUGGIST his Supplement is in-MARCH 13

erted in every copy of he Chemist & Druggist

ESSEX STREET, LONDON, W.C.2.

1948

revailing restrictions and heavy demand on space necessitate the holding over of a number of dvertisements week by week. It is therefore advisable to send instructions as early as possible. All dvertisements in this section must be prepaid. Box office numbers 2/- extra.

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QUALIFIED MANAGER wanted for West End
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lener, Superintendent, 431 Gloucester Kd., stol, 7.

NTRAL SCOTLAND. Qualified assistant required county town. Duties mainly dispensing. Light day duties. Apply, Box 3/152.

EMISTS' ASSISTANTS (ladies) wanted for cleriwork in the N.H.I. checking bureau and stocking departments. Apply National Pharmaceul Union, 4-5 Queen Sq. W.C.I.

LIFAX CO-OPERATIVE CHEMISTS, LTD., require pharmacist to serve as manager of a modern nch shop. Permanent progressive position, good days, superannuation scheme. Applications, ng all particulars, should be addressed to The retary, Halifax Co-operative Chemists, Ltd., 7 tth Parade, Halifax.

CHEMISTS WANTED. Applications are invited from young energetic pharmacists who are single and willing to travel round a circuit of branches acting willing to travel round a circuit of branches acting as relief managers. Good wages and travelling expenses with entry into superannuation fund after an initial period of service. Apply, giving full particulars of age, etc., and when free, to The Technical Supervisor, Scottish Co-operative Wholesale Society, Ltd., Retail Drug Dept., 187 Bogmoor Rd., Shieldhall, Glasgow, S.W.I.

HERTS. Good-class market town. Vacancy occurs for caviling the manager for busy branch. Excellent

for qualified manager for busy branch. Excellent opportunity for progressive pharmacist able to build up dispensing connection. Permanency. Possibility of house for suitable applicant. Apply Box 3/83.

LEAMINGTON SPA. Qualified, to manage branch pharmacy; salary and commission. Hours 9 to 6. Prospects of advancement. Hutton & Barrett, Ltd., 42 Parade, Leamington Spa.

LONDON, W.11. Manager (qualified) urgently required for working-class business, busy N.H.I. and brisk counter. Suitable man will be paid well and well looked after. Good living accommodation available if necessary. Apply Box 3/85.

LONDON, S.E. Qualified manager required for middle-class business. No Sunday duty. Flat above available, if necessary, when accommodation found for present occupier. Good opportunity for young pharmacist. State age, experience and salary required. Box 3/121.

N.P.U. REGISTER OF LOCUM TENENS. The services of a number of qualified locums are urgently required, and pharmacists (male or female), who are at present available for locum duty, are invited to apply to The National Pharmaceutical Union, 4-5 Queen Sq., London, W.C.I.

NORTH LONDON. Energetic young manager (qualified) wanted for pharmacy in northern suburb. Living accommodation available. Permanency with good prospects. Apply Box 3/86.

NOTTINGHAM Co-operative Chemists, Ltd., require the services of pharmacists as branch managers and locums. Permanent positions, eligible for superan-nuation. Full particulars to Superintendent Chemist, N.C.S., Ltd., Upper Parliament St., Nottingham.

NOTTINGHAM. Qualified lady or gentleman for high-class business. This is a permanent and progressive position and a good salary will be paid No Sunday or holiday duty. Box 3/102.

ORRIDGE & CO., Employment Agency, 184 Strand, W.C.2, Temple Bar 9212/3. Branches at Southampton and Birmingham. Inquiries invited from all employers seeking staft. Many pharmacists and unqualified assistants available for retail and wholested Propagatories along servicing districtions. sale. Representatives also requiring situations, Reasonable terms. Write to 184 Strand, W.C.2, for particulars.

PHARMACIST. Experienced qualified man to take charge of branch in Central London. Permanency for suitable man. Living accommodation could be arranged if required. Apply Lewis & Burrows, 146 Holborn, E.C.1.

PHARMACIST required as relief manager for a group of pharmacies situated in London and the Home Counties. Excellent experience with a managerial position in due course. Give full particulars of previous experience, etc., to Goldthorpes, 10 Powis St., Woolwich, S.E.18. Woolwich 0403.

PHARMACIST to take charge of branch in southwest London. Progressive. Permanency for suitable control of the progressive of the

man. Living accommodation if required, Apply Box

2/987.

POPLAR. Manager (qualified) required for busy pharmacy in Poplar, Good salary offered to ener-getic man with experience. Permanency with good prospects. Good living accommodation available.

Apply Box 3/84.

QUALIFIED PHARMACIST (male or female) required. Must be accurate dispenser. Excellent opening is offered as manager to one who would be interested in developing sales of med cal aids. Write

terested in developing sales of med cal aids. Write for appointment, giving full qualifications and salary required. Box 3/71.

SEASIDE. Wanted, lady assistant, qualified or un-qualified, for good-class business. No half-day or Sunday duty. Close at 6 p.m. Accommodation

could be arranged. Apply usual particulars: Mills, Chemist, Eastbourne, Sussex.

SHEFFIELD & Eccleshall Co-operative Society invites applications from pharmacists for position of branch manager of established business, capable of considerable expansion; in pleasant, suburban resi-

considerable expansion; in pleasant, suburban residential district. Write, stating age, experience, salary required, to Superintendent Chemist, The Arcade, Eccleshall Rd., Sheffield, 11.

SOUTH KENSINGTON. Vacancy for lady assistant for counter and stock. Apply B. R. W. Stickland & Co., 41 Thurloe St., South Kensington, S.W.7. Ken. 4186.

SURREY. Pharmacist manager required very shortly for a high-class family pharmacy in pleasant suburban district. Business builder with experience required. Apply Box 3/88.

URGENT. Qualified lady or gentleman as superintendent for small, busy shop, in Birmingham. Salary, £12 p.w., or by arrangement. Congenial position. Good hours. Good prospects, and permanency to right person. Apply Frank's (Birmingham), Ltd., 394 Lodge Rd., Birmingham, 18.

WELLINGBOROUGH INDUSTRIAL CO-OPERATIVE SOCIETY invite applications from pharmacists, male

**SOCIETY** invite applications from pharmacists, male or female, for the position of branch manager of a new modern pharmacy in a pleasant country town. Scope for excellent progress for person with initia-tive. Superannuation scheme. Unfurnished accommodation to be arranged. Apply in writing, stating age, experience and salary to the Superintendent Chemist, 4 Midland Rd., Wellingborough.

Chemist, 4 Midlana Rd., Wellingborough.

WEST END, LONDON. Qualified assistant, lady or gentleman, required for West End type of business. Duties principally dispensing and to assist at counter. Good salary. Apply Box 3/87.

WEST LONDON. Capable pharmacist required to manage good-class branch in West London. Suitable experience necessary and ability to handle customers and build up a dispensing connection very desirable. Good salary and prospect of living accommodation if necessary. Apply Box 3/89.

YOUNG LADY, experienced counter assistant for City pharmacy. Apply Box 3/146.

YOUNG PHARMACIST, recently qualified and well-trained, required for high-class pharmacy in West Midlands. Box 3/66.

### LOCUMS WANTED

QUALIFIED locum required period April 26-May 1 inclusive. Please state terms. Chemist, Holland-on-Sea, Essex. Farebrother,

RELIEF required to run small drug store in Sussex for three weeks from April 19. Accommodation available. Box 3/78.

QUALIFIED LOCUM required from any time no until the end of September to do relief work in group of businesses in S.W. and S.E. Londo Please give full particulars, etc., to Goldthorp (Chemists), Ltd., 312 London Rd., North Chear Sutton, Surrey. Derwent 2804.

### WHOLESALE

ACTIVE and experienced representatives require ACHIVE and experienced representatives required no commission basis (part time) to call on chemist hairdressers, ironmongers, etc. for "Eclipse" raziblades in the counties of (1) Derby, Leiceste Warwick, Notts, Northampton, Staffs, Worceste (2) the Eastern Counties. Apply in writing, will particulars, to James Neill & Co. (S'effie'd Ltd., Composite Steel Works, Napier St., Sheffield

ADDITIONAL LINES available for salesmen calling

adultional Lines available for salesmen calling on chemists. Established hair preparations no nationally advertised. State territory covered are particulars. Box No. GA 384, 4-7 Salisbury Ct Fleet St., E.C.4.

ANALYST. Assistant required for chief analyst the chemical and pharmaceutical factory on outskir of Stockport. Candidates should possess B.Sc. and preferably Ph.C. qualifications with experience in physical and chemical control of raw material intermediates and finished products. Applications physical and chemical control of raw material intermediates and finished products. Application will be treated in confidence and should be addresse to Managing Director, British Schering Manufactuing Laboratories, Ltd., 38 Fitzwarren St., Seedley Salford, 6, Lancs.

BUCKLEY-BOWKER TABLET CO., LTD., 29 Parl field St., London, N.1, recuire representative, part time, calling on chemists and stores in London and district to handle additional lines in medicinal tab.

district, to handle additional lines in medicinal tak lets and pills on generous commission terms. Appl

CIBA LABORATORIES, LIMITED, require a qualified pharmacist, under 30, with pharmaceutica manufacturing experience. It is a permanen appointment which will give a man of initiativand ability excellent prospects of advancement. Pen sion fund. Remuneration in keeping with experi ence and qualifications. Applications to be addressed Production Manager, ed, Horsham, Sussex. Laboratories Ciba

Limited, Horsham, Sussex.

COSMETIQUE YIGDOR (LONDRES), LTD., 11!

Queensway, W.2, require first-class representative to carry high quality cosmetics, perfumery, etc. on commission. All areas except London, S. Counties, N. Ireland, N.W. Midlands, N. Wales References must accompany written applications.

**EXCELLENT SCOPE** for a first-class representative offered by old-established London manufacturers of onsistently advertised perfumery and toilet preparations. The territory comprises London, W., S.W., S.E., Kent, Sur-ey and Sussex. Applicants should have experience of the trade and be cat owners. Liberal salary, expenses and car allowance. Write fully in first instance to Box 3/129.

EXPORT representative, experienced, required to call on London shipping houses and merchants, by well - known toilet preparations manufacturers.

well - known toilet preparations manufacturers. Salary, commission and expenses. Connection with West African shippers preferred. Write full details to Box 3/136

FINE CHEMICAL MANUFACTURERS in the Home Counties require analyst to take charge of their analytical and control laboratory. Qualifications required: B.Sc., A.R.I.C., Ph.C., with knowledge of fine chemical and alkaloid assays. Salary, £600 per annum. House available in approximately 3 months with the process of the chemical and alkaloid assays. time. Box 3/68.

LOYELUCK EDWARDS & CO., have vacancy for a resident representative in (1) Leeds area · (2) New-castle · (3) South Wales. Applications also invited London area. Particulars to 432/440 Garratt Lane, S.W.18.

### SALES DIRECTOR

A VACANCY occurs in a Leading London firm of Manufacturing Chemists. Applicant must possess Pharmaceutical qualifications and have held a similar appointment. This is a permanent post with excellent prospects. Salary commensurate with qualifications and experience. Reply in confidence giving full details, including age, to Box 3/20.

ANUFACTURERS of old-established nationally vertised toilet preparations are seeking representaes to call on retail chemists and hairdressers in ndon and Home Counties. Only those with ex-sive connections need apply, to Box 3/150.

ANUFACTURING CHEMISTS require agents with od connections with chemists, hairdressers, ironongers, etc., to handle first quality established oducts on generous commission basis. Write, give particulars, to Box 3/158.

ANUFACTURING CHEMISTS, marketing fine need of proprietaries, invite applications from excienced representatives for following territories: London (south and north of Thames), Middlesex. Midland Counties. 3, West Country. Sole agentications of the country of the Midland Counties. 3, West Country. Sole agens considered providing not more than two lines nelled. Applicants must own car and have wellablished connections with retail and wholesale emists, stores and Coops. Existing accounts insferred. Fullest support given. Excellent proscts, progressive remuneration. Complete infortion, in confidence, essential prior to interview. clude age, basis of remuneration preferred, exact a covered and frequency of calls, if references allable. Box 3/67.

ANUFACTURERS of C.F. preparations require re-esentatives or agents for London, Suffolk, Nor-k, Hunts, Cambs, Notts, Leicestershire, Lincs, arwickshire, Worcestershire, Yorkshire, Scotland, uth Wales. Applicants must have good connec-n. 20% commission. Applications with full par-ulars of present territory and lines carried to we 2/940 x 2/940.

EDICAL REPRESENTATIVES required by leading anufacturer of ethical products to call on doctors d hospitals: Scotland N.E. counties; Merseyside; orthumberland and Durham; South Yorkshire and affordshire; Berkshire to Hampshire area. Age years or under. Residence on territory an adntage. Full details to Box 3/124.

FFICE MANAGER required to run office and distch of small pharmaceutical manufacturers and porters, North London. Full particulars of past perience, age, salary required, to Box 2/996.

Prominent Company has vacancies for representatives resident in the following counties: Kent, Surrey, Berkshire, Hampshire, Dorset, East London and Southern Essex. Applicants should have good experience of retail pharmacy. Give fullest particulars in confidence to Box 3/90.

LD-ESTABLISHED makers of C.F. lozenges, pas-les and tablets require young qualified man as presentative in part London and Middlesex. lary, commission, expenses. State age, retail and her experience in first letter. Box 3/64.

PILL AND TABLET COATER, experienced in all types of coating work. 5-day week. Apply Castle Huskisson, Ltd., Moon St., Islington, N.I. PROVINCIAL DRUG HOUSE require experienced unqualified male assistant for despatch department.

Extensive knowledge of the trade essential. Applicant should give full details of experience and state salary required. Home Counties, West of London. Box 3/140.

REPRESENTATIVE required for widely advertised line London area. High commission and full expenses.

Box 3/160

REPRESENTATIVES for Lancashire, Northumberland, Durham and Scotland for advertised line. High commission. Box 3/161.

REPRESENTATIVE required by manufacturing and distributing house to call on retail and wholesale chemists in the Yorkshire area. Applicants must commission and expenses. Write, stating full details, age and experience. Box 3/131.

REPRESENTATIVES calling on chemists and hardware stores are offered two easy selling repeat lines on good commission basis. Box 3/130.

REPRESENTATIVES OR AGENTS required for all areas with connections with retail and wholesale chemists to take up additional line. Good commission. Box 2/967.

REPRESENTATIVES required calling on chemists in all parts U.K. to handle good additional lines on commission basis only. Box 3/108.

REPRESENTATIVES calling on chemists, dressers, stores, etc., in London and Suburbs, required by popular perfumery manufacturers and ladies' brushware wholesalers. Write Debussy Perfumery Co., Ltd., 377 Edgware Rd., W.2.

REPRESENTATIVE required for Scotland by old-established manufacturing chemists. To take over and develop existing business. Applicants must have sound connection and be prepared to give adequate representation. Car owner preferred. Fullest details of experience (including retail pharmacy), territory covered, and other firms represented, in first letter to Box 3/82.

R. HOVENDEN & SONS, LTD., 41-53 Britannia Row, Islington, N.1, have the following vacancies:— Lipstick processor, raw materials storekeeper, cosmetic packaging materials and bottles storekeeper, female belt charge hands, and lipstick finishing charge hand. 5-day week; canteen, fortnight's holiday with pay, music-while-you-work, excellent conditions

ditions. REPRESENTATIVE required by well-known manufacturing chemists for London area. Applicants should have sound knowledge of high-class pharmacy. The appointment is permanent, and offers excellent prospects. Car owner an advantage. Full particulars in first letter, please. Age, salary required, details of career to date, to Box 3/81.

REPRESENTATIVE required by established toilet preparation manufacturers to cover London district. Experience and sales contacts with retail hair-dressers, chemists and stores essential. Salary and commission. Box 3/75.

SALES MANAGER required by well-known firm of manufacturing chemists in the North of England. The position will be well paid and offers per-manent prospects and excellent scope to the right man. Experience of selling to the pharmaceutical trade in all aspects is essential and a pharmaceutical qualification would be an advantage. Reply in strict confidence to "Direct.or," Box 3/139.

SALES REPRESENTATIVES calling on chemists, hairdressers, stores, etc., in all areas of the British Isles, required by well-established manufacturers and distributors of first-class toilet preparations and cosmetics. Apply, giving full particulars and experience. Box 2/896. SALES REPRESENTATIVE required by world-famous toilet brush company for Kent and Surrey; must have own car. Salary, commission, expenses, pension scheme. Write full details age, education, experience to Box 3/104.

sales Representative required by world-famous toilet brush company for West Riding of Yorkshire, resident Leeds or Bradford; must have own car. Salary, commission, expenses, pension Write full details age, education, experience, to Box 3/105

SALES REPRESENTATIVE required by world-famous toilet brush company for area N. Wales, Cheshire, Shropshire, Worcester; must have own car. Salary. commission, expenses, pensions scheme. Write full details age, education, experience to Box 3/106.

SHAVING STICKS, shaving cream, toilets. Old-established company require experienced live representatives in all parts of the United Kingdom. Preference given to those with existing connections with chemists and grocers. Remunerative opportunities for good men. Write Box 108, c/o George Murray (Advertising), Ltd., 184 Strand, London, W.C.2.

STAFFORD ALLEN & SONS, LTD., require an assistant analyst of B.Sc., A.R.I.C. or equivalent standard. Previous experience of the analysis of drugs and galenicals including alkaloidal assays necessary. Knowledge of essential oil analysis an advantage. Salary according to qualifications and experence, Apply by letter to Department D/WM, Wharf Road, London, N.1.

SUPERVISOR of packing department required at pharmaceutical laboratories near Kingston, Surrey, Practical experience of large-scale tablet packing essential. Fullest details and salary required to Production Director, Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2.

TRAYELLERS calling on chemists wanted to sell an established nationally advertised summer line on commission. West Scotland, Midlands, Wales, Eastern Counties, Home Counties. State area covered, lines carried, and frequency of journey. covered, li

TRAVELLER required for Scotland to represent a applicants with sound connections should apply. Salary, expenses and commission. Write, giving full particulars to Box 3/122.

WANTED by manufacturing chemists, young pharmacist, preserably with some knowledge of tablet manufacture. This is desirable, but not essential. Box 3/19

WAREHOUSEMAN required with good general knowledge. Box 3/56.

WELL-KNOWN manufacturing chemists, situated on west coast of Lancashire, and having wide in-terests in proprietary field, home and export, are seeking an M.P.S. to undertake the duties of buyer. He should have good experience of drug and chemical buying, together with a sound knowledge of the purchasing of all packaging media, cartons, tins, drums, bottles, etc., and must be conversant with up-to-date methods of stock control. The appointment will be interesting and progressive. In applying please give fullest details of experience, age, qualifications and salary required, with indications as to references. Box 3/115.

WILLIAM RANSOM & SON, LTD., Hitchin, require a foreman for their laboratory. N fully experienced in the manufacture of galenicals. Reply by letter in the first instance stating previous experience, age and wages required.

WORKS CHEMIST with good Honours Degree and and some experience in the production of organic synthetic medicinals. Salary according to qualifications, experience and ability. Apply to Production Director, Evans Medical Supplies, Ltd., Speke, Liverpool, 19.

WORKS CHEMIST with pharmaceutical qualification required by well-known Manchester house manufacturing galenicals, tablets, pharmaceutic preparations, etc., for sale to chemists and doctor The position offers scope and a first-class oppotunity of permanency and advancement to the right man. Technical requirements are: experience the control of manufacturing processes, an executiv ability particularly in the control of staff. Successful applicant will also be required to co-operate i formulation of preparations and the fixing of standards. Reply giving full details, in strict confidence to Managing Director. Box 3/101.

### WHOLESALE (OVERSEAS)

CHEMISTS urgently required by large industrial cor-cern operating in the Middle East. Will be employe either on development or process work and shoul be prepared initially to undertake shift work o process plant; should possess B.Sc. degree and pra-ferably have had subsequent industrial experience Age not over 30. Single men preferred. Salary no less than £560 to £600 p.a., according to qualifications, together with allowance in local currency free furnished bachelor accommodation, passay out and home, medical attention and kit allowance Applicants must be of full British parentage an should write stating age, qualifications and experence, quoting Department F.18, to Box 1082, at 19 Corchard Hause Core

Gresham House, E.C.2.
PLANT CHEMISTS urgently required for process PLANT CHEMISTS urgently required for procest plant operation by large company operating in the Middle East. Applicants need not be graduates but should have had a chemical training up to Interest of States of National Certificate standard with experience of shift work in either a gas, coke oven on the chemical works. Age not over 30. Salary is sterling between £540 and £600 per annum, plu generous allowances in local currency, with the furnished backelor accommodation, passages out are furnished bachelor accommodation, passages out an home, medical attention, also kit allowance an provident fund benefits. Apply, stating age, qualifications and experience, etc., to Dept. F.22, Bo 1020, at 191 Gresham House, E.C.2.

### SITUATIONS WANTED

3/- for 18 words or less, Id. for every additional work

### RETAIL (HOME)

EX-R.A.F. medical quartermaster, dispenser, know ledge stores, typing, book-keeping, requires post Southern Counties preferred. Box 3/93.

LADY, unqualified, experienced all-round, tall middle-age. Please send full particulars. London now, but country appreciated. Box 3/98.

STOCKTAK!NG, quiet and efficient workmanship over 30 years' practical experience. Personal super vision. C. W. Playfoot, 8 Aylward Rd., Merton Park, S.W.20. Tel. Liberty 4104.

#### LOCUMS SEEKING ENGAGEMENTS

coventry and District. Pharmacist available as locum from March 22. W. Hilton, 96 Kenpa Highway, Coventry.

### RETAIL (OVERSEAS)

SOUTH AFRICA. Experienced qualified chemist age 29, wishing to emigrate, desires position retail, wholesale or representation. Box 3/100.

#### WHOLESALE

ADVERTISER seeks position with manufacturing chemists. Good managerial and administrative ex-perience. First-class references offered. London preferred but not essential. Please give particulars in confidence of any vacancy which might be suitable. Box 3/107.

### TO SALES MANAGERS

R 3p EXPERIENCE . 3p ENERGY 3+ COMMON SENSE . 3+ HUMOUR BASE over 1,000 live a/cs.

Dose: To be taken in the Midlands daily.

Write Box 3/120, C. & D.

YER, many years' experience in manufacturing mists, cosmetic and household trades, seeks simior other managerial position requiring organising d administrative ability, anywhere at home or road with prospects. Box 3/157.

YER, fully experienced in all branches purchas-

management, offers services to manufacturing mists of good standing or industry with similar uirements. Contacts at good levels, Highest erences. Offers in confidence please to Box

SMETIC CHEMIST, creative, introducing new lines creative, introducing new lines ecially for export, wants situation. Box 3/134. **IABLISHED** active representative seeks reputable in for Lancashire, Westmorland and Cumberland. In nection available. Box 3/99. **PERIENCED REPRESENTATIVE** calling on whole-

and retail chemists and allied trades in London South-Eastern Counties seeks additional good ality line by manufacturers of repute. Sole re-sentation only considered. Car owner. Com-sion basis. Excellent references. Box 3/156.

PERIENCED REPRESENTATIVE, covering whole-be chemists, hairdressers, sundriesmen, wholesale cers, multiples and Co-ops. in London and Home unties, with large number of current accounts, ks one good additional line by firm of repute. ality business sought. 15-year-old connection. Car ner. Commission basis. Box 2/953.

PORT SALES MANAGER desires change. Well-

rected, widely travelled, mutil-lingual, influential reseas personal and business contacts. Minimum r figure salary plus. Write, X. Y. Z., c/o

r figure salary plus. Write, X. Y. Z., c/o emical Club, London, ETCHER RIT5ON desires appointment to an execuposition where 25 years of qualified experience olesale and retail, combined with tact and intry, can be utilised to advantage. 5 Dean Ave., llasey, Cheshire. Wallasey 5395.

EE LANCE REPRESENTATIVE who can prove 0,000 turnover last year with one proprietary, now open to accept similar product and invites nufacturers seeking representation in 5 Midland unties to communicate. Connection embraces olesale chemists, wholesale grocers, hardware facs and Co-operatives. Own car, Fullest details of ducts, which must be of repute, and proposin, in first letter requested. Box 3/114.

h, in first letter requested. Box 3/114.

NTLEMAN, 20 years' connection with pharmatical trade of Northern Ireland, seeks representive position; commission basis, or agency. Box 159.

NTLEMAN, 34, experienced ethical representations, seeks appointment. Thorough knowledge olesale and retail pharmacy. Live connection dlands territory. Would also consider London Home Counties. Own car. Box 3/118.

EN, energetic man requires progressive position drug buyer or in packaging pharmaceuticals. Extent references. Retail and manufacturing extent references.

lent references. Retail and manufacturing exience. London area preferred. Box 3/151. DICAL PROPAGANDIST, experienced, keen, alified, wide connection in North, well-known. sires change. Success assured for right lines.

x 3/76.

PRESENTATIVE with 22 years' sales experience, ndon and Home Counties, strong personal contion wholesale, retail chemists' trade, requires l-time representation on salary, commission, expses basis, with house of repute. Box 3/126.

### **APPOINTMENTS**

### CROWN AGENTS FOR THE COLONIES

Applications from qualified candidates are in-

Applications from qualified candidates are invited for the following post:—
PHARMACIST required by the Government of Northern Rhodesia for the Health Department for one tour of 24 to 36 months with prospect of permanency. Salary £375 a year in scale rising to £600. Higher commencing salary may be offered according to age, war service and experience. Cost of living bonus is between and experience. Cost of living bonus is between £80 and £192 according to number of dependants. Free passages and quarters. Candidates, not over 35, must be members of the Pharmaceutical Society of Great Britain. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper to the Crown Agents for the Colonies, 4 Millbank, London, S.W.1, quoting M/N/21393 (3F) on both letter and envelope.

### KENT COUNTY COUNCIL

ASSISTANT PHARMACIST

Applications are invited for the following ppointment at the County Pharmacy, County Hall, Maidstone.

ASSISTANT PHARMACIST (M.P.S. ASSISTANT PHARMACIST (M.1.3.) of Ph.C.) (male). Hospital experience preferred. Salary £370 a year, rising by four increments of £15 and one of £20 to £450 a year. Superannuation. Medical examination necessary.

Applications, stating age, qualifications, experience and the names and addresses of two responsible persons to whom reference may be made as to professional ability, to be sent to the County Medical Officer, County Hall, Maidstone, as soon as possible.

W. L. PLATTS, Clerk of the County Council.

County Hall, Maidstone. 13th February, 1948.

### KENT COUNTY COUNCIL

ASSISTANT PHARMACIST

Applications are invited for the following appointment at the COUNTY HOSPITAL, FARNBOROUGH, Nr. BROMLEY.

ASSISTANT PHARMACIST (M.P.S. or

Ph.C.) either sex. Hospital experience preferred. Salary £370 a year by four increments of £15 and one of £20 to £450 a year. Superannuation. Medical examination necessary.

Applications, stating age, qualifications, ex-perience and the names and addresses of two responsible persons to whom reference may be made as to professional ability, to be sent to the County Medical Officer, County Hall, Maidstone, as soon as possible.

W. L. PLATTS,

Clerk of the County Council.

County Hall, Maidstone. 11th February, 1948,

### NOTTINGHAM GENERAL HOSPITAL

ASSISTANT required in pharmaceutical department. Apothecaries' Hall Certificate. Duties Duties partly clerical and partly dispensing. Knowledge of typewriting preferred. Salary commencing £270 per annum. J.N.C. scale. Apply full particulars by letter to the House Governor and

### MIDDLESEX COUNTY COUNCIL

REGISTERED ASSISTANT PHARMACIST for NORTH MIDDLESEX COUNTY HOS-PITAL, Edmonton, N.18. J.N.C. (Hospital Staffs) Scale. £370 to £450 inc. Similar experience may determine commencing salary. Whole time, established, pensionable, subject to medical examination. Applications, stating age, qualifications, experience, with copies of up to three recent testimonials, to MEDICAL DIRECTOR of Hospital immediately (quoting D.591). No forms.

C. W. RADCLIFFE, Clerk of the County Council.

### MIDDLESEX COUNTY COUNCIL

ASSISTANT PHARMACIST required at WEST MIDDLESEX COUNTY HOSPITAL, Isleworth, Middlesex. J.N.C. (Hosp. Staffs) scale £370 p.a. to £450 inclusive. Similar experience may determine commencing salary. Must hold one of Pharmaceutical Society's qualifications. Whole-time duties under Medical Director and Chief Pharmacist. Established, subject to medical examination. Applications, stating age, qualifications, experience, enclosing copies of up to three recent testimonials, to MEDICAL DIRECTOR of Hospital (quoting D.570 CD).

#### MIDDLESEX COUNTY COUNCIL

LOCUM PHARMACIST required by MID-DLESEX COUNTY COUNCIL at WEST MIDDLESEX COUNTY HOSPITAL, Isleworth, Middlesex, IMMEDIATELY, for an indefinite period. Salary £8 8s. to £10 10s. inclusive, according to experience. Applications to MEDICAL DIRECTOR of Hospital with copies of up to three testimonials (quoting D.718 CD).

### RUNWELL HOSPITAL near Wickford, Essex

near Wickford, Essex
JUNIOR ASSISTANT required in PHARMACY DEPARTMENT, preferably with the
diploma of the Society of Apothecaries Assistant in Dispensing, in which case the J.N.C.
salary scale of £276 rising to £320 per annum
will apply. Interesting work in a well-equipped
department; previous experience is not essential. The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909. Board and lodging in the
Hospital would be available if required at a
weekly charge of 30s. Applications, giving
details of age, education and any experience,
should be sent immediately to the Physician
Superintendent.

### **AGENCIES**

17/6 for 36 words or less, 4d. for every additional word

APPLICATIONS are invited from first-class salesmen with sound connection highest class chemists and/or beauty salons. For exclusive biological beauty production. Write fully Box 3/110.

ESTABLISHED company P.A.T.A. wholesalers, with excellent showroom and delivery facilities for London and Home Counties, able to handle several additional lines, pharmaceutical and surgical. Good representation assured. Box 3/142.

MANUFACTURERS' Agents' Association (C. & D.), Rosebery House, 8 Bream's Bidgs., E.C.4, supplies free lists of agents to manufacturers seeking representation in all important centres. Membership available to established agents.

FRENCH MANUFACTURER of empty ampoules neutral glass, white and yellow, in all shapes, se active agents well introduced among pharmaceuti laboratories and other industries using ampoules, U.K. and Eire. Correspondence in English. plicants please write first letter, giving full det regarding activities and trade references, to I 3/145.

### **AGENCIES WANTED**

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Prominent manufacturing chemists wish to contact company, covering U.K. by medical detail staff, with a view to joining forces in this field and thereby to reduce cost of propaganda. Write in strict confidence to Box 66, Smiths', 100 Fleet Street, London, E.C.4

BUSINESS BROKERS, LTD., have been requiested find specially for ex-Service men a large number small chemists and allied businesses in all parts the Country, and would welcome, in confident offers of outright sale or active partnerships involing from £500 and upwards. Business Brokers, Ltt 46 St. James's Place, London, S.W.1. Reg. 541

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e floor space, valuable le.tings. Price £10,000.

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mouth; main shopping centre, on bus routes; station. Large, well-equipped shop, with disng room. Living accommodation. Average ver £6,000 p.a. Ample scope for improver. Goodwill, fixtures and fittings, £1,500. Stock luation. Long lease at moderate rent. Apply 2/117

3/117.

DLESALE SURGICAL business for disposal or er entertained. Rapidly increasing turnover. 18,000 sq. ft. available. Sales for nonths ended December 1947 approximately 100; will be much greater this year. Business, ding freehold property estimated to be worth 100. Very valuable sublet produces £1,000 per m. Bankers references with application, to Ige & Co., 184 Strand, W.C.2.

wholesale packers, glassware and chemical supply business, est. 3 years 3 months. Reg. purchase tax. Ministry licences for toilet preps. Export on toilet register. Licences for pine tar and 3 other types shampoos, food co'ours, fruit essences, gelatine, soapless liquids, hair dyes, D.D.T. Central City, compact premises, cheap lease; stock mostly well bought glassware, approx. £8,000. Staff 8, own van, good representation stores, Co-ops., chemists, fancy goods, hairdrese ers. Who'esale quantity connection amongst the best houses easily run. Last annual turnover exceeds £40,000; owner moving south: unlimited prospects. Offers. Box 3/97. south; unlimited prospects. Offers. Box 3/97.

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WHOLESALE BUSINESSES required, preferably of the distributing type. Unlimited capital available for the right concerns. Vendors could sell outright or retain an interest. Substantial wholesale interests already held. References will be forthcoming. Apply to Orridge & Co., 184 Strand, W.C.2.

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AVAILABLE ex stock bicarbonate of soda, B.P. and technical. Write to Box 3/154.
BOTTLES. 1, 2 and 3 flats and panels, complete with metal caps, available. Offer Box 3/74.

BOTTLES. 156 gross 25U c.c. (approx. 9 oz.) medical flats for sale. Send for sample and price: Rodmill Chemical Co., Ltd., Liverpool, 3.

BOTTLES. 2,500 gross \(\frac{1}{2}\)-oz. amber square. 2,000 gross \(\frac{1}{2}\)-oz. amber square. 2,000 gross \(\frac{1}{2}\)-oz. amber cannons. 800 gross \(\frac{1}{2}\)-oz. medical flats. 250 gross \(\frac{1}{2}\)-oz. clear glass cannons. Samples and prices apply Rapidol, Ltd., 22 St. Margaret's Rd., Hanwell, W.7.

CALCIUM GLUCONATE and calcium lactate. Several cwt. of each available. Offers invited for part or whole. Box 3/135.

FOR SALE. Up to 24 cwt, natural white essential oil of camphor; 48 cwt, yellow essential oil of camphor; 2 cwt, brown oil of camphor; 5 cwt. Spanish oil of lavender. Offers to Box 3/143.

FOR SALE. Large quantity of canister cartons, 3-ply board, waxed inside, metal top and bottom, size 3½ in. x 5½ in. Also quantity of cellophane paper, lead chloride, ammon, chloride, fullers' earth, aluminium filings, iron filings and copper carbonate. Quick sale required. Phone Gerrard 7965.

FOR SALE, 14 cwt. Magnesium Carbonate, B.P. (Pond). Sample sent if required. Offers to Box 3/112.

FOR SALE. Ephedrine hydrochloride, B.P. Price 7/- per oz. Minimum quantities 50 oz., maximum 1,000 oz. Subject unsold. Only firm orders accepted. Write Box 3/155.

FOR SALE. About 36,000 flat bottom white tubes, also corks for some of them. Apply Box 3/55. JARS. 2-oz. squat black metal caps, 300 to 400 gross available. Offers Box 3/73.

LARGE STOCK scientific glass, to clear: Desiccators, condensors, burettes, jars, measures, funnels, filters, etc. Med. and Desct. Instr. Centrfug.-Mach. microscope. Books, etc., etc. Write for list: 2 Banffhouse, Glenmore Rd, N.W.3. 'Phone Pri 4478.

MANUFACTURERS have surplus stocks of 1 oz. medical bottles for disposal. Write Box 3/127 for full details.

PEPPERMINT OIL. Approx. 140 lb. U.S.A., 100 lb. Italian, or would split quantities subject unsold. Have good analytical reports. Box 3/133.

PHOTOGRAPHIC LIQUID: M.Q. developer. Export and home orders promptly executed. Esmalls. Write requirements to Box 3/79. Bulk and

SACCHARIN ENVELOPES. Two-colour envelopes available, part printed with standard wording, with space for name and address. Sample and price on application; state quantity required. Gordon A. Briggs, Wholesale Distributors, 189 Anglesey Rd., Burton-on-Trent.

### LIQUIDATORS STOCK

Offers required for approx. 25 cwt. Sulphonated Fatty Alcohol Powder, 55%; 15 cwt. lower grade; 30 cwt. Borax, 14 x 28 lb. Petroleum Jelly; 20 x 45 gallons Technical White Oil; 28 lb. Lemon Grass Oil; 200 lb. Spike Lavender Various perfumes; 200 gross 4-oz. Flat Fancy French bottles; 50 gross 2-oz. Cylindrical bottles; Powder and Bottle Filling Machines; Various other commodities; Large made up stocks. Inspection invited, The Liquidators, 46 St. Peter's Ave., Cleethorpes.

SHOWCASES, glass counters, quick serving and airtight fittings, in oak or mahogany. Stock or made to your requirements, Repair Dept. Counters or fittings loaned during repairs. John Carbey, Ltd., 433 High Rd., Tottenham, N.17. Tot 6570.

SMALL QUANTITY garlic, nutmeg, peppermint oils for disposal. Box 160, c/o George Murray (Advertising), Ltd., 184 Strand, London, W.C.2.

SODIUM SESQUI CARBONATE, 10 tons, ex London. Offers required. Box 3/63.

STEARIC ACID, 1 cwt.; almond oil, B.P., 1 cwt.; apricot kernel oil, 1 cwt.; spermaceti, B.P., 60 lb.; pure white mineral oil, 40 galls.; 1-oz. white opal lars. plastic caps (French), 8 gross. Offers to Box jars, 3/111.

SURPLUS. Record syringes and needles available in large quantities from stock. Inquiries invited. Edwards Surgical Supplies, 66 Mortimer St., W.1.

**SURPLUS** for sale, 2 drums each almond, hazelnut and refined teaseed oil. Box 3/50.

SURPLUS. For sale, malt extract and malt with cod liver oil. Bulk or packed, Keen prices, Box 1619, Eason's Advertising Service, Dublin.

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WHITE ODOURLESS MINERAL OIL, Pool 30, for disposal, 40-gallon drums, 7s, 6d, per gall. Write Box 3/54.

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ASPIRIN B.P., granular. Box 3/62.

B.P. PEPPERMINT OIL required, any quantitie Box 3/59.

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GLYCERINE, all kinds urgently required. Box 3/6

GLYCERINE required. Manufacturing chemists wis to purchase glycerine, pharmaceutical quality, up one ton. Offer to Box 1/577.

GLYCERINE. High price paid for small or lar quantities. Supplies urgently required. Partic lars Box 3/123.

GLYCERINE, chemically pure, required in any quatity. Cash by return. Box 3/132.
LIQUORICE pellet-making plant required. Offers

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STEARIC ACID, triple pressed. Box 3/60. STEARIC ACID, triple pressed, required in lar quantities. Box 147/850.

WANTED. Glyceryl-monostearate. Triple r stearic acid. Saccharin 550 powder. Vanillin. Triple press petroleum jelly. Large and continuous supplies r

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BOTTLES. 20 gross 8-oz. new white flint S/1 complete with metal caps, 38/- gross. 20 gross-oz. new ribbed oval white flint C/M, 16/- gross free deliveries. Box 3/138.

GLASS COUNTER TOP SHOWCASES, flat, plate at mahogany, by Sage, London, Three available, & each; state lengths required; £30 the lot for quie sale; Bargain, Buyer must arrange carriage ex New castle-on-Tyne. Box 3/77.

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